

Product may not be exactly as shown.





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Safety and Warranty Information

Symbols used

Read this manual carefully before installing the boiler or putting it into operation. This manual must be retained for future reference. If the information in this manual is not followed exactly, a fire or explosion may result causing property/product damage, serious personal injury and possibly death. Make sure all the requirements detailed in this manual are understood and completed.

	DANGER	Indicates the presence of a hazardous situation which, if ignored, will result in death, serious injury or substantial product/property damage.
$\underline{\Lambda}\underline{\Lambda}$	WARNING	Indicates a potentially hazardous situation which, if ignored, can result in danger, serious injury or substantial product/property damage.
Â	CAUTION	Indicates a potentially hazardous situation which, if ignored, may result in minor injury or product/property damage.
i	Notice	Indicates special instructions or installation, operation or maintenance, which are important to equipment but not related to personal injury hazards
R.	Best Practices	Indicates recommendations made by De Dietrich for the installers which help to ensure optimum operation and longevity of the equipment.

Professional licensed heating contractor



The assembly, installation, adjustment, service and maintenance of this boiler must be performed by a professional licensed heating contractor.

Boiler Documentation



Make sure to read all documentation related to the product before starting the installation. The product documentation should be stored near the boiler where it can be accessed for future reference.

Advice for the owner

When the installation has been completed, the heating contractor has to familiarize the operator/ owner with the installed equipment as well as any safety precautions and requirements, and shut-down procedures. The heating contractor also needs to inform the operator/owner of the need for professional annual servicing of the boiler prior to the heating season.

Contaminated air



Chemicals can contaminate the air and cause by-products during the combustion process. These by-products are poisonous to the occupants and very destructive to De Dietrich boilers.

Carbon monoxide



Flue products can flow into living spaces if improperly installed, adjusted, serviced or maintained. The flue gases contain carbon monoxide which is poisonous.

Fresh air

Adequate ventilation and combustion air must be provided for the equipment as it requires fresh air for safe operation. Make sure the equipment is installed ensuring an adequate supply of fresh air.

Boiler venting



Always operate the boiler with an installed vent system. Carbon monoxide poisoning can be caused by an improperly installed vent system. All combustion products must be vented safely to the outdoors.

Warranty



The information in this manual and any other related manuals must be read and proper procedures followed. The warranty is rendered null and void if the procedures are not followed as prescribed.

Note:

Some products may not be exactly as illustrated. Information contained herein is deemed as accurate as possible. Clarification of material supply, pipe sizing, thread type, and typographical errors should be noted as soon as possible. Dimensions have been converted from the Metric standard. Fractional rounding may affect dimensional tolerances

Operation

Before operating the boiler, make sure you fully understand its method of operation. Your heating contractor should always perform the initial start-up and explain the system. Any warranty is null and void if these

Flue gas smell

- Deactivate heating equipment.
- Open windows and doors.
- Do not try to light any appliances.
- Do not touch any electrical switches, do not use any phone in your building.
- Immediately call your heating contractor or gas supplier from a neighbour's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.

Working on the equipment

All personnel working on the equipment or the heating system must have the proper qualifications and hold all necessary licenses.

Ensure main power to equipment, heating system, and all external controls have been deactivated. Close main gas supply valve. Take precautions in all instances to avoid accidental activation of power during service work.

Dangerous conditions

- Deactivate main power immediately.
- Close gas supply valve.

A CAUTION

Incomplete combustion and poisonous gases result if the fresh air intakes in the mechanical room are closed. Never close these openings.

Maintenance and cleaning

Regular inspection and service by a qualified heating contractor is critical to the performance of the boiler. Neglected maintenance impacts the warranty; regular cleaning and maintenance ensures clean, environmentally friendly and efficient operation. We recommend a maintenance contract with a qualified heating contractor.

For safe operation

We recommend that you frequently:

 Check for debris which could obstruct the flow of flue gases. The vent or chimney must not be blocked. A blocked or partially blocked vent or chimney can cause flue gases to leak into the structure. Flue gases leaking into the house can cause injury or death. Blocked or partially blocked chimneys must have the blockage removed by a qualified heating contractor.

- Check pressure gauge for correct system (water) pressure.
- Check for water on the floor from the discharge pipe of the pressure relief valve or any other pipe, pipe joint, valve or air vent.
- Check for moisture, water, or appearance of rust on the flue gas pipes, their joints as well as vent dampers, or side wall vent terminals (if so equipped).
- Ensure that nothing is obstructing the flow of combustion and ventilation air and no chemicals, propane tanks, garbage, gasoline, combustible materials, flammable vapors and liquids are stored (not even temporarily) in the vicinity of the boiler.
- Do not allow unsupervised children near the boiler.
- Service/inspection of the boiler and the system is recommended once a year. Maintenance, service and cleaning are specified in the Installation instructions.
- Before the heating season begins, the boiler with its burners should be serviced by a qualified heating contractor. Service contracts may be established through gas suppliers or licensed contractors in your area.

There are no user serviceable parts on the boiler, burners or control. Failure to heed this warning can cause property damage, severe personal injury, or loss of life.

A CAUTION

Improper installation, adjustment, service, or maintenance can cause flue products to flow into living space. Flue products contain poisonous carbon monoxide gas which can cause nausea or asphyxiation resulting in severe personal injury or loss of life.

CAUTION

Should overheating occur or the gas supply fail to shut off, do not disconnect the electrical supply to the pump. Instead, shut off the gas supply at a location external to the appliance.

A CAUTION

This appliance may sometimes contain crystalline silica. When installing or removing this appliance, you should wear protective gloves, clothing and mask to prevent any type carcinogenic illness.

A CAUTION

The operator/ultimate owner is required to have the heating boiler, burners, and controls checked, as a minimum once per year, by the original installer or by a competent heating contractor familiar with the equipment. Defects must be corrected immediately.

Do not use this boiler if any part has been under water. Immediately call a qualified heating contractor to inspect the boiler and to replace any part of the control system and any gas control which has been under water. Do not store chemicals containing chlorine or other corrosive materials near the boiler, such as bleach, cleaning solvents, detergents, acids, hair spray, spray cans, paint thinners, paint, or water softener salt.

Important

Do not use the boiler if any section of it has been subjected to water or submerged in water. Immediately call your service company to inspect and replace any part of the control system and gas components which have been subjected to water or submerged in water.

Boiler modification and spare parts

This boiler uses specific original manufactured parts. The boiler must not be modified or non-OEM parts used without the written approval from DDR Americas Inc.

Carbon monoxide

The installation of carbon monoxide detectors is highly recommended by the U.S. Consumer Product Safety Commission for buildings with gas burning equipment. Sources of carbon monoxide include exhaust vents for gas appliances or wood burning fireplaces that are not properly vented, malfunctioning furnaces and exhaust fumes from idling cars.

Carbon monoxide is a colourless and odourless gas that is highly toxic. It can interfere with the delivery of oxygen by the blood to the body. Exposure to low levels of CO can cause headaches, confusion, nausea, dizziness, fatigue, and shortness of breath. High level exposure of CO can cause impaired vision, convulsions, coma and possibly death.

Have a qualified service technician inspect the heating equipment exhaust vent pipes and chimney flues on a yearly basis.

In winter, inspect the exhaust vents for the dryer, furnace, wood burning or gas stove, fireplace and heat recovery ventilator to ensure they are not obstructed by snow build-up.

Carbon monoxide detectors should be installed and maintained in buildings that house gas burning equipment. It is recommended to use a carbon monoxide detector that is in compliance with a nationally recognized standard such as ANSI/UL 2034-2002 or CSA 6.19-01.

Codes

Installation, servicing and maintenance of this product must be performed by a licenced and trained heating contractor, experienced in hot water heating boilers as well as gas and oil combustion. The installation must conform to all national and local codes having jurisdiction:

- In Canada, CSA B149.1 Gas Code and CSA B139 Oil Code.
- In USA, ANSI Z223.1 (NFPA 54) Gas Code, NFPA 31 Oil Code and ASME CSD-1 Automatically Fired Boilers.

If you have any technical questions or need assistance with this product, please call your local Sales Representative or DDR Americas Inc.

Standards applied

We hereby certify that the series of appliances specified hereinafter are in compliance with the latest standards described, and that they are manufactured and marketed in compliance with the requirements of the following North American standards:

- ASME Section IV
- CSA B51
- ANSI Z21.13-CSA 4.9 Gas fired steam and hot water boilers.
- CAN/CGA 2.17-M91 Gas fired appliances for use at high altitude.
- CGA P.2-1991 (R1999) Testing method for measuring annual fuel efficiencies or residential furnaces and boilers.
- ANSI/UL 726 Oil fired boiler assemblies.
- CSA B140.7- Oil burning equipment: steam and hot water boilers.
- CSA B140.0- Oil burning equipment: general requirements.
- CSA B212- Energy utilization efficiencies of oil fired furnaces and boilers.
- CAN/CSA C22.2 No.0-M91 General requirements Canadian electrical codes part II.
- CSA C22.2 No.3-M1988 Electrical features of fuel burning equipment.
- UL795 Commercial and industrial gas heating equipment.
- CAN1-3.1-M77 Industrial and commercial gas fired package boilers.
- UL353 CSA 22.2 No. 24

Water pipe freezing hazard

M WARNING

Serious property damage and/or personal injury can occur if the pipes are not protected from freezing resulting in the pipes bursting. The boiler may also shut down. Turn off the water supply and drain the water pipes or protect them from freezing when leaving the home unattended for long periods of time during very cold weather conditions.

The boiler is designed to provide a comfortable and warm environment and is not designed for the prevention of frozen water pipes. In case an unsafe condition occurs, the boiler has been designed and equipped with several safety devices that will shut down the boiler and stop it from restarting. If the boiler is dormant for an extended period of time during cold winter weather, the water pipes may freeze

and burst which can result in extensive water pipes may freeze and burst which can result in extensive water damage and lead to mold growth. A variety of molds can cause serious health and respiratory problems. If water damage should occur, immediately dry the affected areas to avoid the possibility of mold growth. If the building will be empty for an extended period of time in old winter conditions, then the following steps should be taken:

- Turn off the building's water supply, drain the pipes and add some antifreeze for potable water for the toilet tanks and drain traps.
- Have the building monitored and checked during cold winter weather and call a qualified service technician if necessary.
- Remote temperature sensors are available which will alert someone if freezing conditions occur in the building.

Combustion sources and

ventilation air contaminants

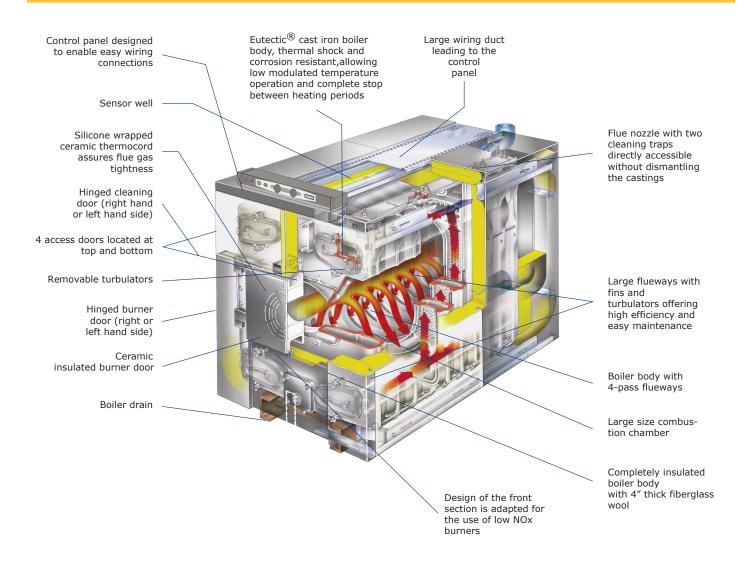
Contaminants are likely to be found in these areas:

- Auto body shops
- New construction
- Metal manufacturing plants
- Swimming pools
- Refrigeration repair shops
- Garages with workshops
- Furniture refinishing shops
- Plastic manufacturing plants
- Hobby rooms and remodelling areas
- Dry cleaners and laundromats
- Photo processing companies
- Beauty salons

Contaminants found in various products:

- Paint and varnish removers
- Chlorinated cleaners and waxes
- Glues and cements
- Swimming pool chemicals containing chlorine
- Refrigerant leaks
- Water softener salt containing sodium chloride
- Cleaning products such as chlorine-based bleaches, detergents and cleaning solvents
- Spray cans containing chlorofluorocarbons
- Muriatic and hydrochloric acid
- Calcium chloride utilized in thawing
- Permanent wave solutions
- Adhesives utilized for building products and other similar items
- Fabric softeners used in clothing dryers

General Information



Unpacking

Upon arrival, check shipment to ensure all parts have been shipped.

Inspect all items for delivery damage. Report all damage and shortages to the delivery carrier. Report any damage and shortages to the Distributor.

Technical Specifications

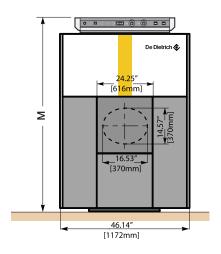
							Boi	ler Mod	lel Gt 5	30A Se	ries					
	It	em	Unit	-15	-16	-17	-18	-19	-20	-21	-22	-23	-24	-25		
Firing	Sequer	nce		<u> </u>		S	Sonsult Bu	rner Techi	nical Data	1	1	1	1			
			МВН	3,749	3,966	4,254	4,470	4,759	4,975	5,191	5,480	5,696	5,984	6,201		
Gas In	iput (C	SA)	kW	1,099	1,162	1,274	1,310	1,395	1,458	1,521	1,606	1,669	1,754	1,817		
# 2 Fu	iel Oil I	nput (CSA)	USGPH	26.00	27.50	29.50	31.00	33.00	34.50	36.00	38.00	39.50	41.50	43.00		
0	h [C	0:11 (004)	MBH	3.194	3.379	3.624	3.809	4.054	4.239	4.423	4.669	4.853	5.099	5.283		
Output	t [Gas-	Oil] (CSA)	kW	936.2	990.2	1,062.2	1,188.3	1,188.3	1,242.3	1,296.3	1,368.3	1,422.3	1,494.3	1,548.		
NET I=	=B=R V	Vater Rating G1	мвн	2,778	2,938	3,152	3,312	3,526	3,685	3,846	4,060	4,220	4,434	4,594		
Cast Iı	ron sec	tions	#	15	16	17	18	19	20	21	22	23	24	25		
Flue-w	ay baf	fles	#	6	6	6	6	6	8	8	8	8	8	8		
Watar	canaci		US Gal	183.09	193.13	203.17	213.21	223.25	239.10	249.14	259.18	269.22	279.26	289.30		
water	ater capacity		Liter	693	731	769	807	845	905	943	981	1019	1057	1095		
		18°F	Ft.H ₂ O	3.28	1.09	1.28	1.45	1.75	2.00	2.21	2.48	2.70	3.01	3.27		
Water ance Delta	resi T – °F	st- 27°F	Ft.H ₂ O	1.46	0.48	0.57	0.64	0.78	0.89	0.98	1.10	1.20	1.34	1.45		
Delta		36°F	Ft.H ₂ O	0.82	0.27	0.32	0.36	0.44	0.50	0.55	0.62	0.68	0.75	0.82		
		Diameter	Inch		27.32											
		(equivalent)	mm		694											
Combu chamb		Donth	Inch	62.76	67.13	71.50	75.87	80.24	86.18	90.55	94.92	99.29	103.66	108.03		
Dimen		Depth	mm	1,594	1,705	1,816	1,927	2,038	2,189	2,300	2,411	2,522	2,633	2,744		
		Valuesa	Ft ³	21.54	22.95	24.72	26.13	27.54	29.66	31.08	32.49	33.90	35.31	37.08		
		Volume	m ³	0.61	0.65	0.7	0.74	0.78	0.84	0.88	0.92	0.96	1	1.05		
MAWP	(Wate	r)	PSIG	ASME IV	Rating Cl	ass 30 - 9	0 PSIG									
Min. S	afety R	elief Capacity	MBH	3,513	3,717	3,986	4,190	4,459	4,663	4,865	5,136	5,338	5,609	5,811		
	Elect	rical connection	V/P/H					120)/1/60 <	15A						
S3NA	Max. Safety	Water Temp. 7 Limit [MR]	°F/ °C						248/120							
		iting Water Tem- ure Range	°F/ °C	Adjus	table 104-	212/ 40-1	.00 Factor	y preset s	top at 185	5°F/85°C (optional Hi	Temperat	ure kit av	ailable		
		Inch w.C	0.96	1.00	1.04	1.09	1.15	1.21	1.25	1.29	1.33	1.37	1.41			
Chamber resistance		mbar	2.4	2.5	2.6	2.7	2.85	3	3.1	3.2	3.3	3.4	3.5			
Gas-Vent Category		#					I,II,II	I,IV or Sid	dewall							
Boiler	vent C	onnection	Inch	16	16	16	16	16	16	16	18	18	18	18		
Waigh	t (Dry)		lb	7,416	7,851	8,280	8,719	9,092	9,575	10,004	10,437	10,869	11,259	11,678		
weigin	(DIY)		kg	3,364	3,561	3,756	3,955	4,124	4,343	4,538	4,734	4,930	5,107	5,297		

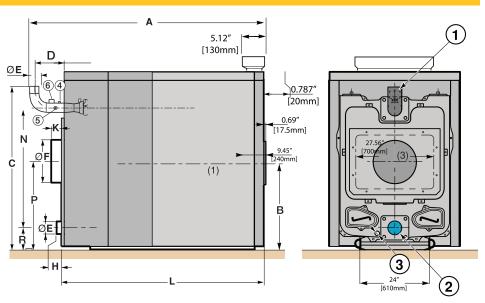
Technical Specifications

						Boiler Mo	del Gt 530	AE Series					
	Ite	m	Unit	-26	-27	-28	-29	-30	-31	-32			
Firing S	Sequence				<u> </u>	Sonsult Burner	Technical Data	3	1				
			МВН	6,483	6,652	6,825	7,166	7,505	7,849	8,190			
Gas In	put (CSA))	kW	1,900	1,950	2,000	2,100	2,200	2,300	2,400			
# 2 Fu	iel Oil Inp	ut (CSA)	US GPH	43.8	45.8	47.7	49.7	51.6	53.6	55.5			
			МВН	5,524	5,668	5,815	6,105	6,394	6,687	6,978			
Output	t [Gas-Oil	J (CSA)	kW	1,618.8	1,661.1	1,704.2	1,789.4	1,874.1	1,959.9	2,045.1			
Cast Ir	ron Sectio	ins	#	26	27	28	29	30	31	32			
Flue-way baffles			#	10	10	10	10	10	10	10			
			US Gal	299.40	309.50	319.60	329.70	339.80	349.90	360.00			
water	capacity		Liter	1,133	1,171	1,209	1,248	1,286	1,324	1,362			
		18°F	Ft.H ₂ O	3.48	3.67	3.86	4.26	4.67	5.1	5.56			
Water Delta 1	resistance Γ = °F	^e 27°F	Ft.H ₂ O	1.55	1.63	1.72	1.9	2.07	2.27	2.5			
		36°F	Ft.H ₂ O	0.87	0.87 0.92 0.97 1.06 1.17 1.28								
		Diameter	Inch				27.32						
		equivalent)	mm				694						
Combu chamb		Depth	Inch	113.97	118.34	122.71	127.08	131.45	135.82	140.19			
Dimen	-	Depth	mm	2,895	3,006	3,117	3,228	3,339	3,450	3,561			
		Volume	Ft ³	38.66	40.25	41.84	43.43	45.02	46.61	48.20			
		volume	m ³	1.095	1.14	1.19	1.23	1.28	1.32	1.37			
ASME I	MAWP (W	ater)	PSIG		90 PSI	-CRN Design re	egistered for ea	ach Canadian P	rovince				
Min. Sa	afety Reli	ef Capacity	МВН	6,076	6,234	6,396	6,716	7,034	7,356	7,676			
	Electrica	I connection	V/P/H			120/6	50/1 < 15 amp	fused					
S3NA	Max. Wat Safety Li	ter Temp. mit [MR]	°F/ °C			Fixed non	adjustable 248	°F [120°C]					
	Operating perature	g Water Tem- Range	°F/ °C		Adujstable 1	04-212°F [40-1	100°C] factory	preset stop at	185°F [85°C]				
Chamk	or register		Inch w.C	1.51	1.60	1.75	1.85	1.90	2.10	2.30			
Chamber resistance		mbar	3.8	4.0	4.4	4.6	4.7	5.2	5.7				
Gas-Vent Category			#		Ca	t I,II,III & IV-	Direct vent (Se	aled Combusti	on)				
Boiler vent Connection		Inch	20	20	20	20	20	20	20				
Moicht			lb	12,111	12,501	13,891	13,281	13,671	14,061	14,451			
Weight	ц (Dry)		kg	5,494	5,670	5,847	6,024	6,201	6,378	6,555			

Technical Specification

GT 530A and GT 530AE





(1) Boiler Supply 5" ANSI 150# welded neck flange

- (4) 1/2" NPT port for temperature and pressure gauge
- (5) 3/4" NPT port for low water cut-off control (LWCO)
- (6) 2# NPT tapping for safety Relief valve.

Note: additional tappings may be required if redundant controls are required

Ite					Bo	iler M	odel	GT 53	AO				Boiler Model GT 530AE						
100		-15	-16	-17	-18	-19	-20	-21	-22	-23	-24	-25	-26	-27	-28	-29	-30	-31	-32
	Inch	98.19	102.56	106.93	112.68	117.05	122.99	127.36	131.73	136.1	140.47	144.84	154.37	158.74	163.11	167.48	171.85	176.22	196.65
Α	mm	2,494	2,605	2,716	2,862	2,973	3,124	3,235	3,346	3,457	3,568	3,679	3,921	4,032	4,143	4,254	4,365	4,476	4,995
	Inch	34.14	34.14	34.14	34.14	34.14	34.14	34.14	34.14	34.14	34.14	34.14	37.14	37.14	37.14	37.14	37.14	37.14	37.14
В	mm	791	791	791	791	791	791	791	791	791	791	791	943.35	943.35	943.35	943.35	943.35	943.35	943.35
~	Inch	58.58	58.58	58.58	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	62.2	62.2	62.2	65.0	62.2	62.2	62.2
С	mm	1,488	1,488	1,488	1,504	1,504	1,504	1,504	1,504	1,504	1,504	1,504	1,579	1,579	1,579	1,579	1,579	1,579	1,579
D	Inch	7.40	7.44	8.26	9.29	10.19	8.19	8.22	9.05	9.09	9.92	9.96	18.74	15.23	15.27	16.10	13.77	12.63	13.46
U	mm	188	189	210	236	257	208	209	230	231	252	253	476	387	388	409	320	321	342
ØE	Inch	5.5	5.5	5.5	6.26	6.26	6.26	6.26	6.26	6.26	6.26	6.26	5.5	5.5	5.5	5.5	5.5	5.5	5.5
ØE	mm	139.7	139.7	139.7	159	159	159	159	159	159	159	159	139.7	139.7	139.7	139.7	139.7	139.7	139.7
ØF*	Inch	15.75	15.75	15.75	15.75	15.75	15.75	18	18	18	18	18	20	20	20	20	20	20	20
ØF	mm	400	400	400	400	400	400	450	450	450	450	450	500	500	500	500	500	500	500
н	Inch	-1.22	-1.18	-0.354	-0.315	0.512	-1.417	-1.378	-0.551	-0.512	0.315	0.354	1.02	-2.48	-2.44	-1.61	-5.11	-5.07	-4.25
	mm	-31	-30	-9	-8	13	-36	-35	-14	-13	8	9	26	-63	-62	-41	-130	-129	-108
к	Inch	0.748	0.709	0.118	0.157	0.984	-0.945	-0.905	-0.0787	-0.0394	0.787	0.827	1.81	1.69	-1.65	-0.82	4.33	4.29	-3.46
ĸ	mm	-19	-18	3	4	25	-24	-23	-2	-1	20	21	46	-43	-42	-21	-110	-109	-88
L	Inch	88.39	92.72	96.26	100.59	104.13	112.01	116.34	119.88	124.21	127.76	132.09	138.8	142.3	146.6	150.2	1540.5	158.0	162.4
-	mm	2,245	2,355	2,445	2,555	2,645	2,845	2,955	3,045	3,155	3,245	3,355	3,445	3,645	3,755	3,845	4,045	4,155	4,170
м	Inch	65.75	65.75	65.75	65.75	65.75	65.75	65.75	65.75	65.75	65.75	65.75	68.75	68.75	68.75	68.75	68.75	68.75	68.75
1.1	mm	1,670	1,670	1,670	1,670	1,670	1,670	1,670	1,670	1,670	1,670	1,670	1,746	1,746	1,746	1,746	1,746	1,746	1,746
N	Inch	42.52	42.52	42.52	42.52	42.52	42.52	42.52	42.52	42.52	42.52	42.52	45.52	45.52	45.52	45.52	45.52	45.52	45.52
	mm	1080	1080	1080	1080	1080	1080	1080	1080	1080	1080	1080	1156	1156	1156	1156	1156	1156	1156
R	Inch	7.87	7.87	7.87	7.87	7.87	7.87	7.87	7.87	7.87	7.87	7.87	10.87	10.87	10.87	10.87	10.87	10.87	10.87
N	mm	200	200	200	200	200	200	200	200	200	200	200	276	276	276	276	276	276	276
Р	Inch	32.09	32.09	32.09	32.09	32.09	32.09	32.09	32.09	32.09	32.09	32.09	35.09	35.09	35.09	35.09	35.09	35.09	35.09
Г	mm	815	815	815	815	815	815	815	815	815	815	815	891.28	891.28	891.28	891.28	891.28	891.28	891.28

F*- Nominal length. Consult vent supplier for correct sizing.

(12

⁽²⁾ Boiler return, 5" ANSI 150# welded neck flange

⁽³⁾ Drain, 3/4" NPT

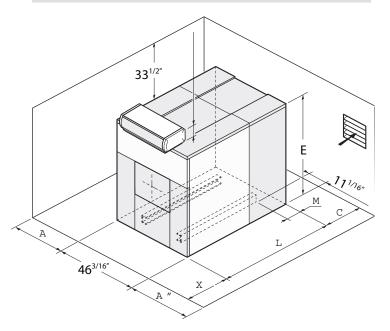
Clearances

The GT 530A/AE boiler has a sturdy underframe, it does not need any special base although a house keeping pad is recommended to keep steel parts out of casual water. Its combustion chamber is closed, so it is not necessary to place it on a fireproof floor, but the floor must be able to bear the weight of the boiler subject to state and local code NFPA 31 and state Fire Marshall.

The minimum dimensions shown on the following drawing are provided as recommendations and guidelines for service access.

CAUTION

Do not install boiler on combustible flooring or carpet. Clearance shown are to combustible materials and servicing.



300mm

If A= 47¹/4" (side burner side door open),

 $A'=47^{1/4''}$ (side burner door open): dimensions to be adopted according to the space required for the burner when the door is open.

Dimensions "X" = burner length plus 24 inches for service

Ref						C	GT 530/	4					GT 530AE						
Rei	•	-15	-16	-17	-18	-19	-20	-21	-22	-23	-24	-25	-26	-27	-28	-29	-30	-31	32
C min	In	5.9	5.9	14.57	14.57	14.57	25.59	25.59	25.59	38.58	38.58	38.58	60	57.4	56.5	57.4	53.8	55.4	54.7
	mm	150	150	370	370	370	650	650	650	980	980	980	1,524	1,457.9	1,435.1	1458	1,366.5	1407.1	1389.3
E	In	61.68	61.68	61.68	61.68	61.68	61.68	61.68	61.68	61.68	61.68	61.68	64.68	64.68	64.68	64.68	64.68	64.68	64.68
	mm	1566.6	1566.6	1566.6	1566.6	1566.6	1566.6	1566.6	1566.6	1566.6	1566.6	1566.6	1,642.9	1,642.9	1,642.9	1,642.9	1,642.9	1,642.9	1,642.9
L	In	88.37"	92.68"	96.18"	100.62″	104.12″	112	116.31″	119.87″	124.25″	127.75″	132.12″	135.62	143.50	146.6	151.37	159.25	163.58	164.17
	mm	224.4	235.40	244.29	255.57	264.46	284.48	295.42	304.46	315.59	324.48	335.58	3445	3645	3755	3845	4045	4155	4170
м	In	12.75″	10.62″	12.62″	10.43″	11.31″	10.62″	12.75″	10.62″	12.75″	9.87″	11.87″	11.57	15.1	15.03	14.21	17.71	17.67	16.85
	mm	323.8	269.7	320.5	264.9	287.2	269.7	323.8	269.7	323.8	250.6	301.4	294	383	382	361	450	449	428

Combustion Air Requirements

A A WARNING

- Inadequate combustion air supply will result in carbon monoxide [CO] development
- Ensure boiler room is provided with an obstruction free combustion air sources.
- Sources must be sized to provide ample supply, more than one opening maybe required.
- Ensure boiler installed with proper clearance to combustible materials
- Do not store combustible materials, flammable fluids or Vapours near the boiler
- Do not operate the boiler under a negative building pressure

The combustion air supply depends on the volume and construction of the building, more than one combustion air supply source or openings maybe required. Combustion air sources that are provided by mechanical device or electrically operated must be interlocked with the boiler/burner to ensure that are in the correct position.

The combustion air supply must be from a source that is free from airborne contaminates such as dust, fumes, corrosive elements, hydrocarbons and any other known air containments. If the combustion air quality is unknown or is a concern, please consult the factory for assistance. Failure in complying with any of these requirements will result in void of product warranty. Particular installation areas and other equipment occupying the same room, precautions regarding the combustion air supply and quality.

- Rural areas
- Chemical plants
- Automotive shops

- Beauty shops
- Paint shops
- Agricultural
- Green houses
- Mechanical rooms
- Other fuel burning equipment

The combustion air supply/source must be sized in accordance to local and national codes.

- Canada CSA B149 for gas installations
- Canada CSA 139 for oil installations
- US ANSI z223.1/NFPA 54 for gas installations
- US- NFPA 31 for oil installations

Consult local building codes, for any other additional combustion air supply or source requirements.

Combustion Air Supply

Boilers operating in atmosphere that contains fluorides or chlorides such as beauty shops and automotive repair garages where air conditioning services are performed or industrial application that may have corrosive elements in the air must have a clean source of combustion and ventilations air. Boiler damage by contaminants will avoid the warranty and any other responsibility or liability of DDR Americas Inc.

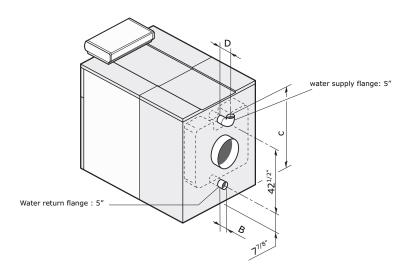
MARNING

Ensure boiler room is adequately ventilated and clear and free from combustible materials, gasoline and other flammable vapours and liquids.

14

Installation Specifications

Piping



						GT530A						GT530AE						
	-15	-16	-17	-18	-19	-20	-21	-22	-23	-24	-25	-26	-27	-28	-29	-30	-31	-32
В	-1.22"	-1.18"	-0.354"	-0.315"	0.512"	-1.417"	-1.378"	-0.551"	-0.512"	0.315"	0.354"	1.02"	-2.48"	-2.44"	-1.61"	-5.11"	-5.07"	-4.25"
	-31	-30	-9	-8	13	-36	-35	-14	-13	8	9	26	-63	-62	-41	-130	-129	-108
С	58.58"	58.58"	58.58"	59.2"	59.2"	59.2"	59.2"	59.2"	59.2"	59.2"	59.2"	62.2"	62.2"	62.2"	65.0"	62.2"	62.2"	62.2"
	1,488	1,488	1,488	1,504	1,504	1,504	1,504	1,504	1,504	1,504	1,504	1,579	1,579	1,579	1,579	1,579	1,579	1,579
D	7.40"	7.44"	8.26"	9.29"	10.19"	8.19"	8.22"	9.05"	9.09"	9.92"	9.96"	18.74"	16.41"	15.27"	16.10"	13.77"	12.63"	13.46"
	188	189	210	236	257	208	209	230	231	252	253	476	387	388	409	320	321	342

AA A DANGER

- Improper installation, adjustment, alteration, service or maintenance can cause property damage, personal injury or loss of life. Refer to the user's information manual provided with this boiler installation and services must be performed by a qualified installer, service agency or the gas supplier.
- This boiler must be installed in accordance with local codes, if any: if not follow CAN/CGA B149, Installation Codes, as applicable.
- This boiler needs fresh air for safe operation and must be installed so there are provisions for adequate combustion and ventilation air.
- This boiler must be properly vented.
- This appliance may require a special venting system. Refer to chimney or vent installation instructions.

ACAUTION

Do not store or use gasoline or other flammable vapours and liquids in the vicinity of this or any other appliance.

Recommendations

- The installation must be made in accordance with codes in effect.
- An expansion tank has to be connected to the system Safety valve must be connected to the boiler piping without any valve or stop installed between the device and the boiler.
- Pressure reducing valve and back flow preventer on boiler make up water feed.
- The boiler when used in connection with a refrigeration system must be installed so the chilled

Filling

The boiler may be filled using the drain tap or water make-up system.

Filling should be done at a slow flow rate in order to purge all the air continued in the system through air vents installed at the system high points filling is always done with circulating pumps stopped.

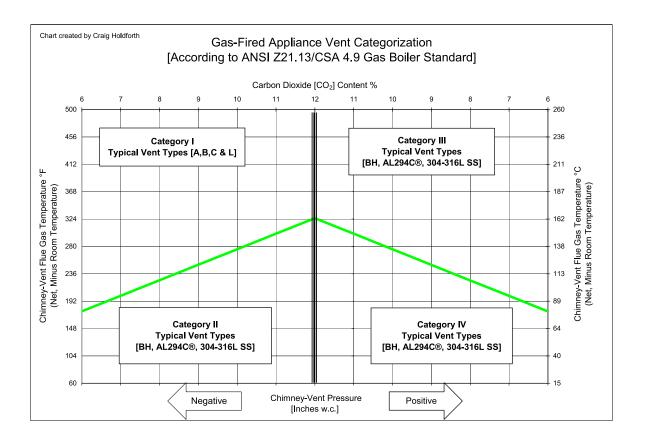
Minimum Safety value Flow according to the maximum boiler output

Source: ASME Boiler and Pressure Vessel Code IV

medium is piped in parallel with the boiler with the appropriate valves to prevent the chilled medium from entering the boiler

 The boiler piping system of hot water boiler connected to heating coils located in the air handing units where thy may be exposed to refrigerated air circulation must be equipped with flow control valves or other automatic means to prevent gravity circulation of the boiler water during the cooling cycle.





Replacement procedures

- When an existing boiler is removed from a common venting system, the common venting system is likely to be too large for proper venting of the appliances remaining connected to it.
- At the time of removal of the existing boiler, the following steps shall be followed with each appliance remaining connected to the common venting system placed in operation, while the other appliances remaining connected to the common venting system are not in operation.
- (a) Seal any unused openings in the common venting system,
- (b) Visually inspect the venting system for proper size and horizontal pitch and determine there is no blockage or restriction, leakage, corrosion and other deficiencies which could cause an unsafe condition,
- (c) Insofar as is practical, close all building doors and windows and all doors between the space in which the appliances remaining connected to the common venting system are located and the other spaces of the building. Turn on clothes dryers and any appliance not connected to the common venting system.

Turn on any exhaust fans such as range hoods

and bathroom exhausts, so they will operate at the maximum speed. Do not operate a summer exhaust fan. Close fire place dampers.

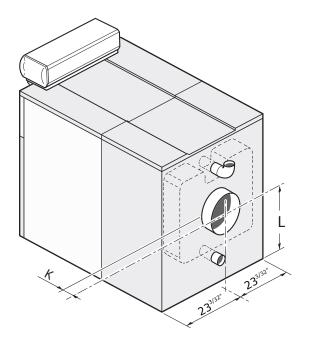
- (d) Place in operation the appliance being inspected.Follow the lighting instructions. Adjust thermostat so appliance will operate continuously,
- (e) Test for leakage at the draft hood relief opening after 5 minutes of main burner operation.
- (f) After it has been determined that each appliance remaining connected to the common venting system properly vents when tested as outlined above, return doors, windows, exhaust fans, fireplace dampers and any other gas-burning appliance to their previous condition of use,
- (g) Any improper operation of the common venting system should be corrected so the installation conforms with the National Fuel Gas Code, ANSI Z223.1 and/or CAN/CGA B149 Installation Codes. When resizing any of the common venting system, the common venting system should be resized to approach the minimum size as determined using the appropriate tables in Part II of the National Fuel Gas Code, ANSI Z223.1 and/or CAN/CGA B149, Installation Codes.
- (h) The minimum distance from adjacent public walkways, adjacent buildings, openable windows and building openings shall not be less than those values specified in the National Fuel Gas Code ANSI Z223.1 and/or CAN/CGA B149, Installation Codes.

A : Chimney connection :

ments.

- GT 530A-15 to 530A-21 = 16"/400 mm
- GTE 530A-22 to GT 530A-25 = 18"/450 mm
- GT 530 -32 AE = 20"/508 mm
 The boiler must be connected to a chimney-venting system that will safely discharge all flue gases to the outside in an effective manner.
 The boiler breeching and chimney venting must be sized according to local and national code require-

Dimensional information required for connection of the boiler



						(GT530A	A Contraction					GT530A						
		-15	-16	-17	-18	-19	-20	-21	-22	-23	-24	-25	-26	-27	-28	-29	-30	-31	-32
V	In	74″	70"	0.12″	.15"	.98″	94″	-0.90″	-0.07″	032"	0.78″	0.82″	1.8	-1.7	-1.65	82	-4.3	-4.29	-3.46
ĸ	mm	-19.0	-18.0	3.0	4	25	-24	-23	-2	-1	20	21	46	-43	-42	-21	-110	-109	-88
	In	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1
L	mm	815	815	815	815	815	815	815	815	815	815	815	891	891	891	891	891	891	891



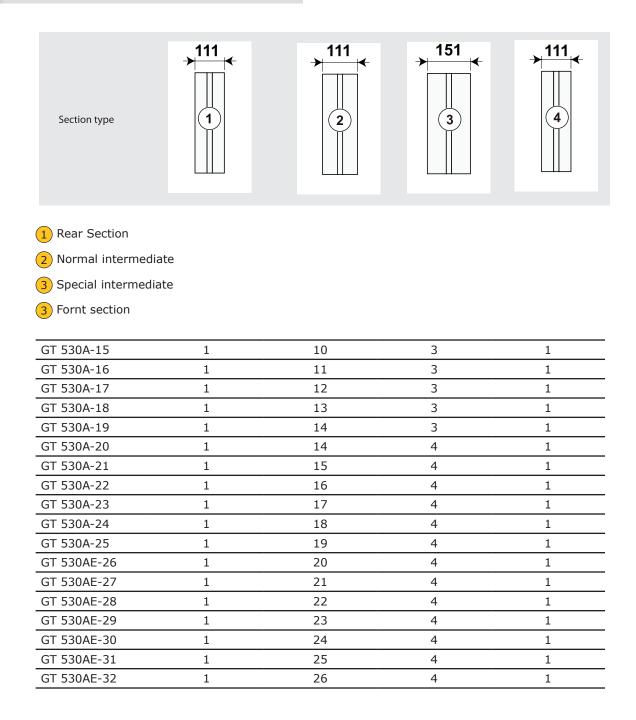
Assemble the boiler body from the rear to the front :

- assemble the rear section,
- assemble all the normal intermediate sections,
- assemble all the special intermediate sections,
- assemble the front section.

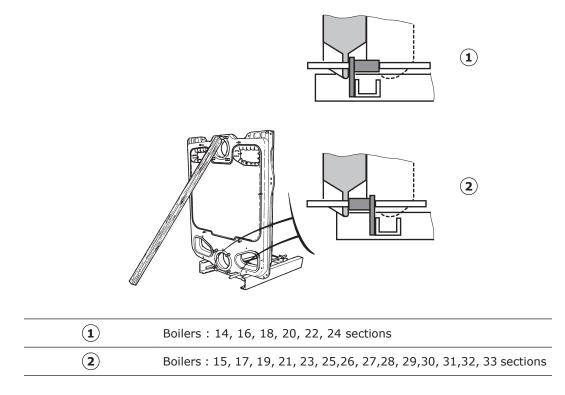
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L

The number of sections of each type is provided in the table below



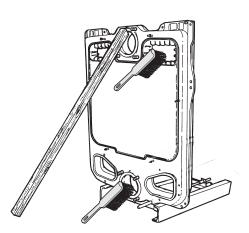




- Establish the location of the frame on the basis of the opening direction of the boiler door and the length of the burner. Leave enough clearance at the rear of the boiler for water connections and the distributing tube.
- Fit the rear section on the frame, behind the fastening brackets (see detailed drawing) and prop it up.
- Insert the lower assembly rods in the holes of the rear section and the fastening brackets of the frame, in order to position the rear section correctly according to the frame

2

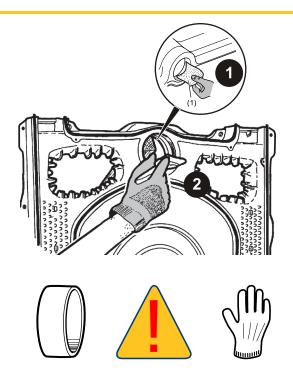
(20



Clean all the openings in the section with a brush or a fine to medium wire wheel. Remove any deposit on the bottom of the section.

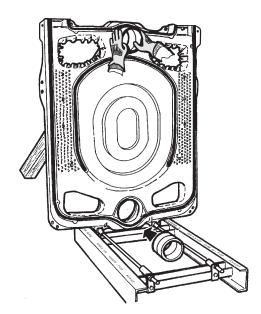
Handle the nipples with gloves as there might be sharp edges.

- Remove any traces of rust protective paint with a fine to medium wire wheel so that the surface is perfectly smooth.
- 2 Coat with the nipple coating with the sections.

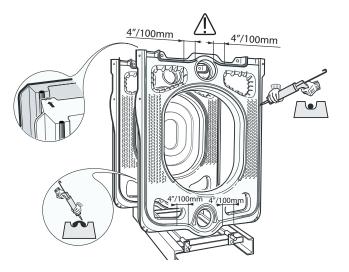


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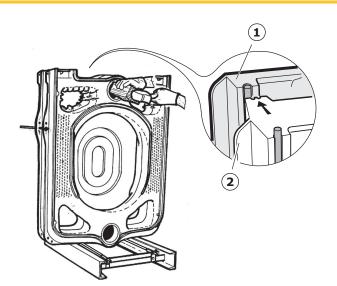


 Gently push in the 2 nipples. Ensure they are square and not pushed in at any angle.



Fill the bottom of the W groove opposite the U groove for the intermediary parts (located on the periphery of the section) with a continuous bead of DOW CORNING silicone, approximately Ø ³/16" / 5 mm diameter.



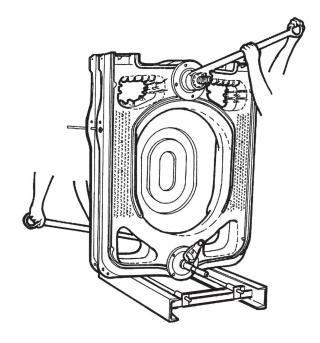


(1) Rear section

(2) Intermediate section

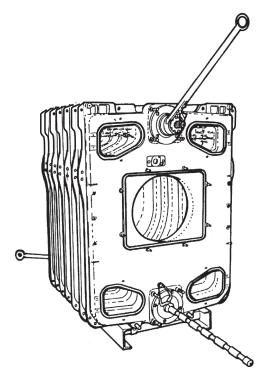
- Place the first normal intermediate section, making sure that it is turned in the right direction, i.e. with the flattening groove against the thermocord.
- ▶ For safety, insert a lateral assembly rod (supplied) in the holes of the 2 sections.
- Push the section gently and simultaneously on to the 2 nipples of the rear section with a hammer and a piece of wood positioned in line with the bores.

Assembly + Set up

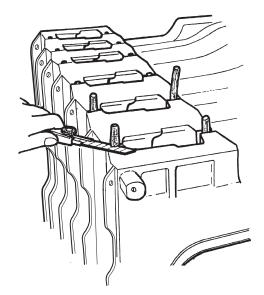


- Put the assembly tool in position.
- Tighten gradually so as to bring together the upper and lower connections evenly and simultaneously.

- Assemble the remaining intermediate sections one by one according to the procedure in step 3-10
- First assemble the normal intermediate sections, then the special ones. Leave the assembly tool in place.

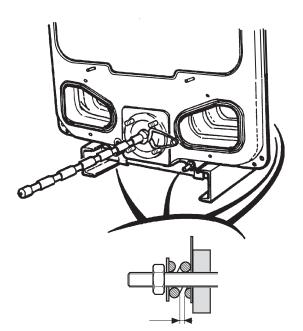


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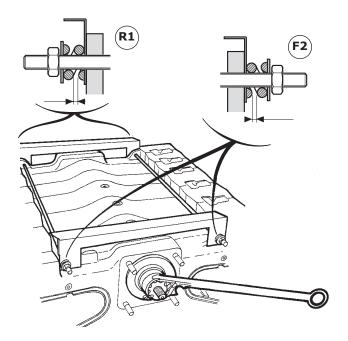


> Trim off any projecting ends of the thermocords flush with the coast sections.

10. Fitting the upper and lower assembly rods



- On the lower assembly rods, fit the following at each end in the given order : an expansion spring, a washer and a nut (the holes of the front lugs must be aligned with the holes of the frame brackets as the assembly rods are used to make the boiler body integral with the frame).
- Stop tightening as soon as the gap between the spring spires is equal to about 2 mm.



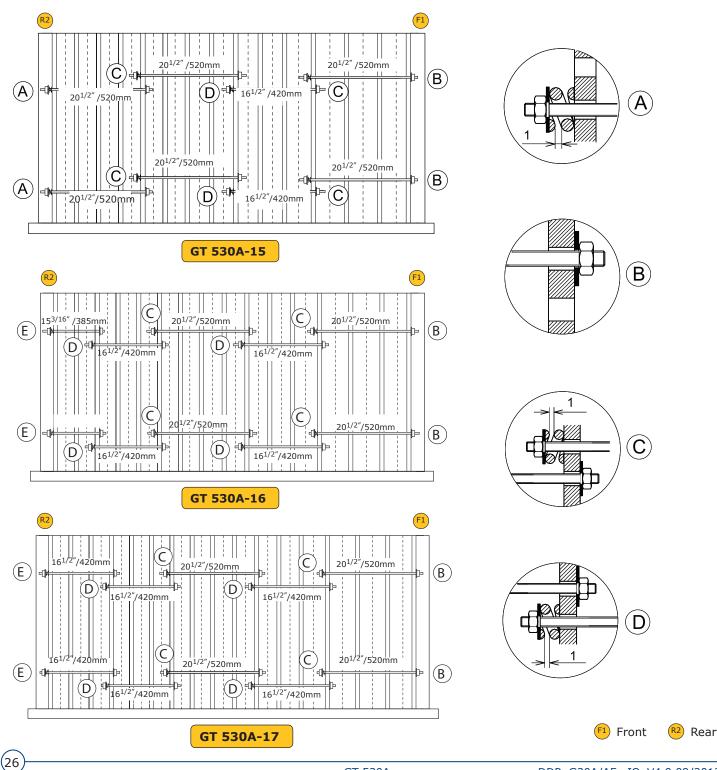
(R1) Rear

(F2) Front

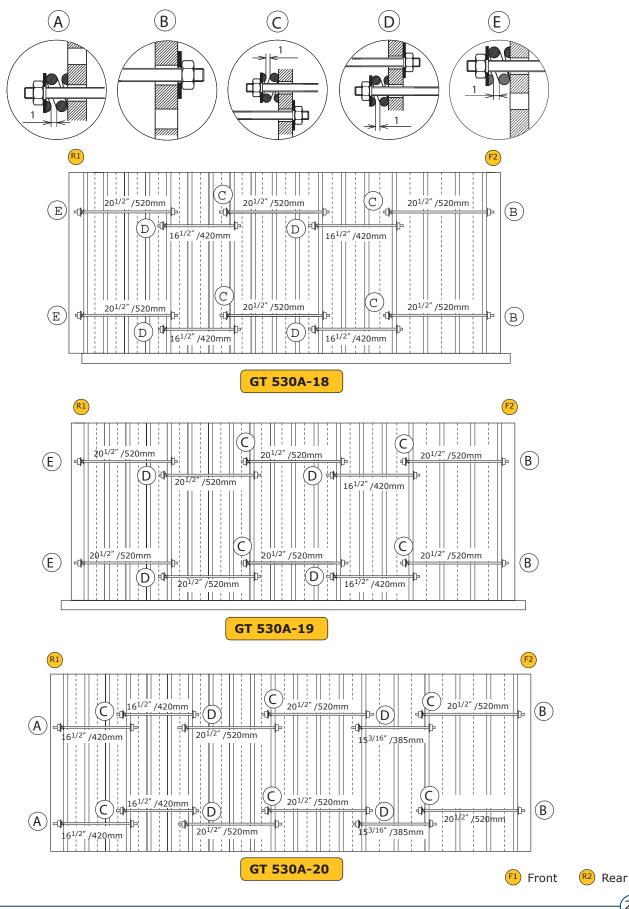
- Put in place the upper assembly rods in the two front and rear lugs. For 26-32 sections boilers, the provided extension and coupling will be required.
- Mount the 2 crosspieces (supplied in package MR245/246) with their bends turned backwards and fasten them to the rods with an expansion spring, 1 nut and 1 washer
- Remove the assembly tool.

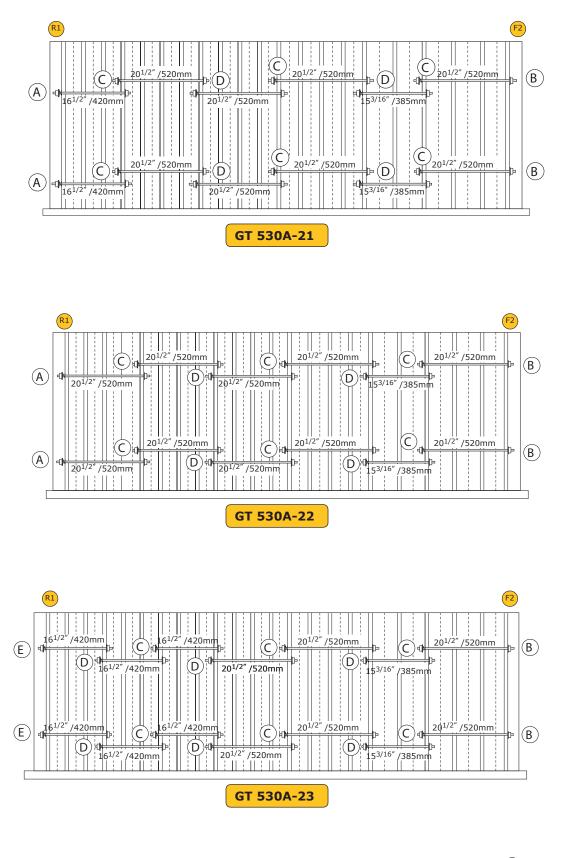
12. Assembling the side assembly rods

- The side assembly rods must be assembled from the rear to the front.
- The rods must be inserted in the holes stated in the diagrams (the lugs of the sections in which the assembly rods are to be inserted have 2 holes).
- Place the expansion spring and washer on the rear of each rod.
- Stop tightening the nuts as soon as the gap between the spires of the springs is about 1 mm



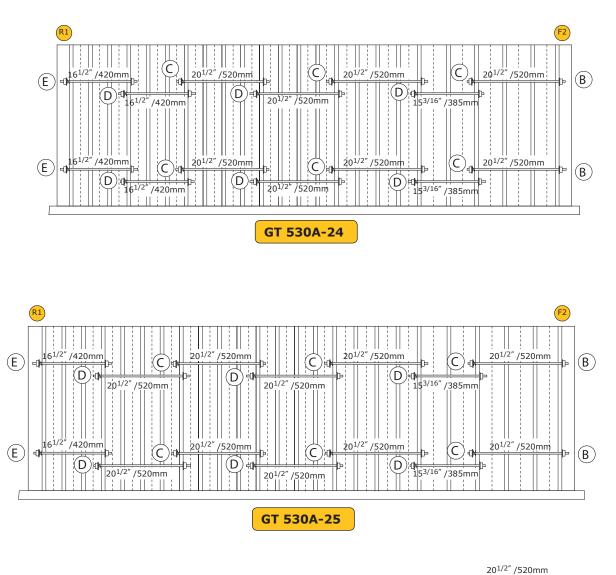
Assembly + Set up

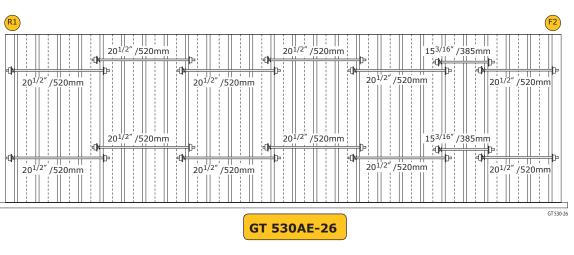




(28)

Assembly + Set up

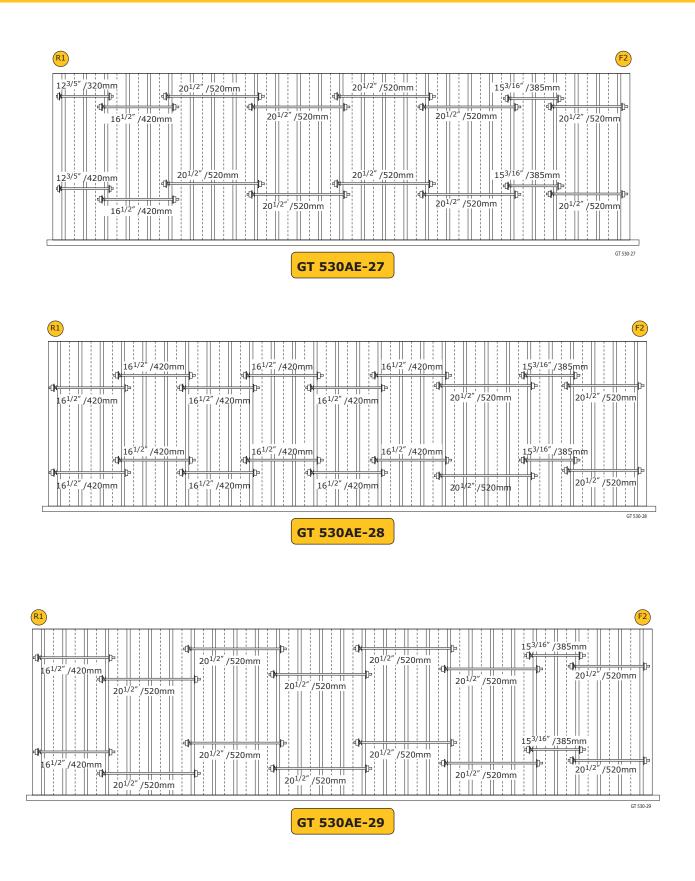




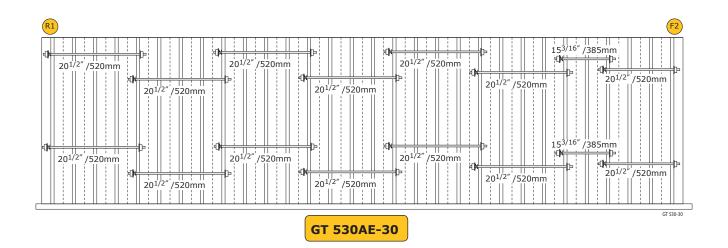
DDR_G30A/AE _IO_V4.0 09/2013

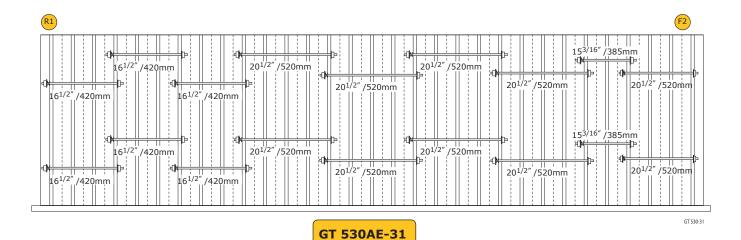
F1 Front R2 Rear

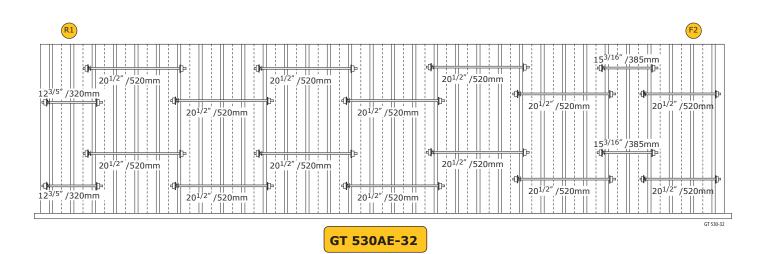
29



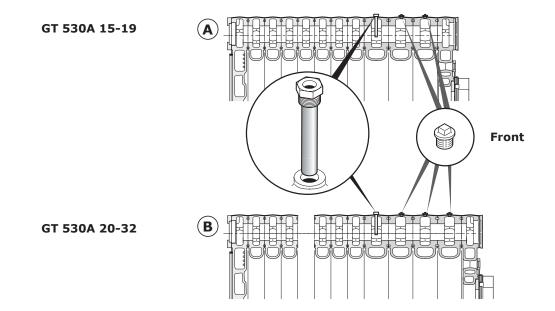
(30)







13. Assembling the pocket and the plugs



Assemble the well for the thermostats and thermometer in :

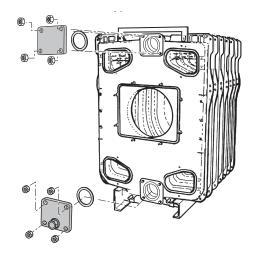
The third special intermediate section $-5^{15/16''}/151_{mm}$ wide, 1/2'' hole for GT 530A-15 to GT 530A-19 or

the fourth special intermediate section - $5^{15/16''}/151_{mm}$ wide, 1/2'' hole for GT 530A-20 to GT 530AE-32.

Plug the 2 free 1/2" holes for GT 530-15 to GT 530A-19 or the 3 free 1/2" holes for GT 530A-20 to GT 530AE-32 in the special intermediate sections.

Fitting the upper and lower front flanges

- Fit the plain flange onto the upper connection of the front section (using 4 M18 nuts), with the Ø $6^{11/16}$ X $8^{3/4}$ / 170x222 gasket in between (first soak the gasket in warm water prior Touse).
- Fit the flange with the sludge removal hole onto the lower connection of the front section (hole in the lower part of the flange) using 4 M18 nuts, with the gasket in between (soak in warm water first).

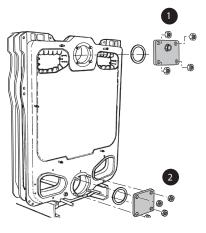


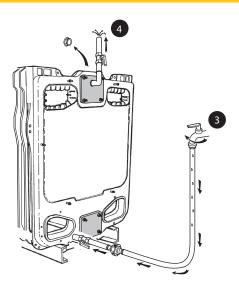
32

14. Hydrostatic Test

After assembling the boiler body, the installer must carry out a water tightness test at a pressure equal to 1.5 times the operating pressure (that is 135 Psig Max. of 145) a minimum 20 minutes. The test must be done at room temperature with a city water tempreature not less than $60^{\circ}f/15^{\circ}C$.

- Fit a square flange with hole facing upwards onto the upper flange with outlet piece.
- Fit a blind square flange onto the lower flange with return piece.





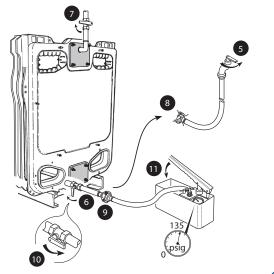
Ensure that all the air in the boiler is vented to avoid any bursting of the body

A CAUTION

16

15

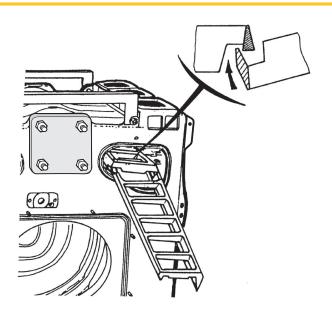
- Maintain the required pressure for at least 20 minutes at 135 Psig. Any drop in pressure indicates a leak in the boiler body.
- After the hydrostatic test, drain the boiler and remove all the parts used for the test.



17

(34

Assembling the baffle



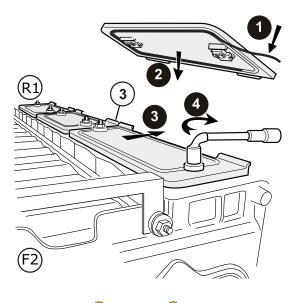
Boiler	GT 530A -15 to 19	GT 530A-20 to 25	
Total number of baffles	6	8	
Package no.	CM 22 + CM 23	2XCM 23	

Boiler	GT 530AE -26 to 28	GT 530AE-29 to 32
Total number of baffles	8	10
Package no.	2XCM 23	2XCM23 + CM22

> Put the baffles into place in the upper front flue ways, taking care to interlock them with each other before inserting them.

18

Assembling the sweeping Covers



F2 Front R1 Rear

- Each cover is fitted with a system whereby it can only be mounted with the handles turned outward.
- **1** The covers are numbered from 1 to 4, and must be fitted with thermocord. The length of the thermocord depends upon the cover and is given below.
- Place the 2 no. 1 sweeping covers (with the handles turned outward) on either side of the boiler starting from the front. Distribute the other covers evenly.
- Fit the two locks of each cover between the sections.
- **9** Push the cover towards the outside of the boiler, to the closed position.
- 4 Fasten the two brass nuts of each cover.

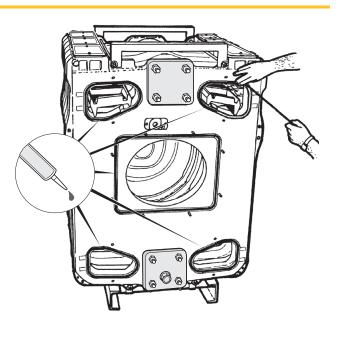
Cover Model	No.1	No.2	No.3	No.4
Boiler type		Number of sweepin	g covers per type	
	Front			Rear
GT 530A-15	2	4		2
GT 530A-16	2	4	2	
GT 530A-17	2	6		
GT 530A-18	2	2	6	
GT 530A-19	2	6		2
GT 530A-20	2	6	2	
GT 530A-21	2	8		
GT 530A-22	2	6	2	2
GT 530A-23	2	6	4	
GT 530A-24	2	8	2	
GT 530A-25	2	10		
GT 530AE-26	2	8	2	2
GT 530AE-27	2	10		2
GT 530AE-28	2	10	2	
GT 530AE-29	2	12		
GT 530AE-30	2	10	2	2
GT 530AE-31	2	12		2
GT 530AE-32	2	12	2	
Thermocord Length	52.5″ /1,335mm	43.7″/1,110mm	35″/890mm	26.18 /665mm

Insert the thermocord in the sealing groove on each side and hold it in place with a few drops of silicone filler.

20. Installing the lower trap Cleaning

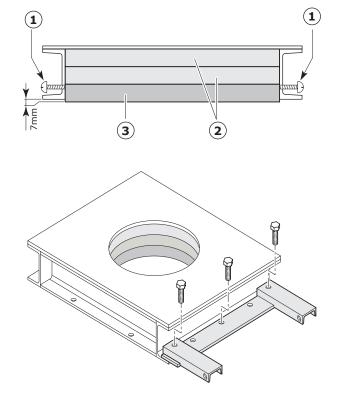
- Insert the thermocord in the sealing groove of the 2 lower flue ways, on the rear and front of the boiler.
- Put the 4 cleaning doors on the lower flue ways and fasten with the wing nuts.





21. Installing the burner/boiler door

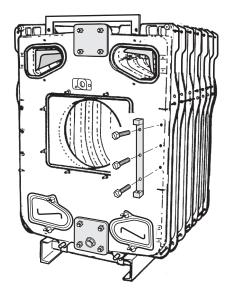
- (1) 2 screws SIM 3.94x25.4
- (2) Refractory felt
- (**3**) Rigid refractory plate
- Put the furnace door insulating material in place and retain it with the 4 screws SIM 3.94x25.4.



- Place the burner/boiler door on the floor and fasten the door hinge onto the door with 3 screws HM 12.

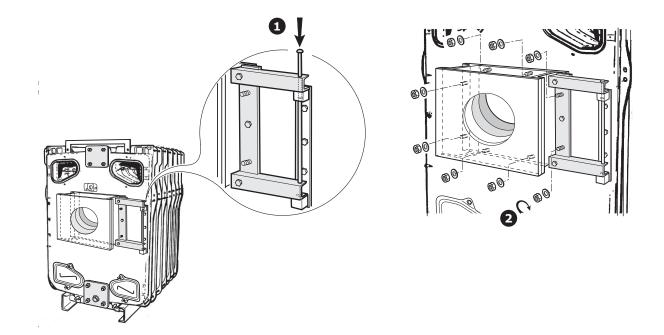
22. Installing the hinge of the burner door

Attach the burner the furnace door hinge on the right or left-hand side of the front section by means of 3 screws HM 12x25.



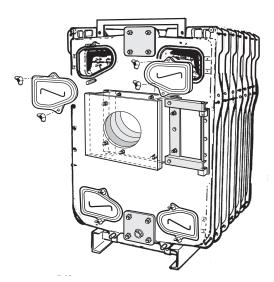
Assembly + Set up

23



- Fit the door onto the hinge by inserting the pin.
- Close the burner door on the 8 studs and fasten with 8 washers and nuts.

24



- Instal the 2 Cleaning doors of the upper flue ways and fasten with the wing nuts.

25. Flame inspection window

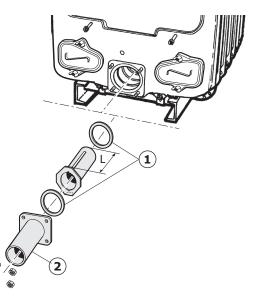
Flame inspection window

▶ The flame inspection window is fitted with a 1/4" tapped hole for ventilation (optional): if a ventilation system is used, connect the hole to the one provided for that purpose before the burner combustion head.

26. Assembling the return flange on GT 530A-15 to GT 530A-25

- ▶ Fit the water balancing tube onto the boiler return with a 170x222mm/6^{11/16}″X8^{3/4}″ gasket in between (first soak the gasket in warm water).
- Fit the heating return flange with a 170x222/ 6^{11/16}"X8^{3/4}" gasket in between (first soak the gasket in warm water) and fasten it with 4 nuts H 18.

Boiler type	Length in mm
GT 530A-15 to GT 530A-16	15"/380mm
GT 530A-17 to GT 530A-19	23.62"/600mm
GT 530A-20 to GT 530A-22	34.62"/880mm
GT 530A-23 to GT 530A-25	47.62"/1210mm
GT 530AE-26 to GT 530-27	61.64"/1565.6mm
GT 530AE-28 to GT 530-29	61.64"/1565.6mm
GT 530AE-30 to GT 530-31	75.64"/1921.25mm



(2) = FA126A to FA132A

 $(\mathbf{1}) = FA126B \text{ to } FA132B$

26. Assembling the supply flange on GT 530A-15 to Gt 530A-25

GT 530A-15	(1) Package FA111	(1	
GT 530A-16 to GT 530A-25	(1) Package FA112 to FA121			
GT 530AE-26 to GT 530AE-32	(1) Package FA126B to FA132B			
			Č	Ų

• GT 530A-15

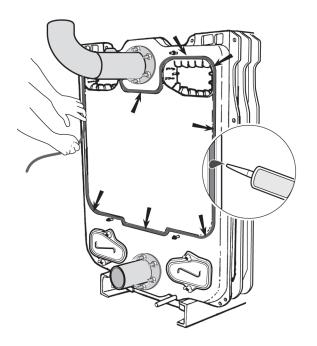
- Place the nozzle turned outside from the boiler with a Ø 61^{1/16} X^{83/4} / 170x222 gasket in between (first soak the gasket in warm water).
- Assemble the flange with angled piece so that the angle is turned upward, with a 6^{11/16}″X8^{3/4″} /170x222 gasket in between (first soak the gasket in warm water) and fasten with 4 nuts H18.

• GT 530A-16 to GT 530A-25

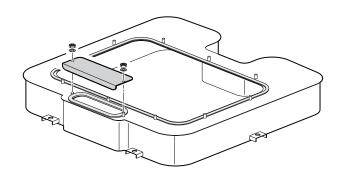
Assemble the flange with angled piece so that the angle is turned upward, with a Ø 6^{11/16} X8^{3/4} /170x222 gasket in between (first soak the gasket in warm water) and fasten with 4 nuts H 18.

27. Installing the Flue Outlet

Carefully insert the 9/16"/15mm gasket in the groove of the rear section and hold it in place with a few drops of silicone.



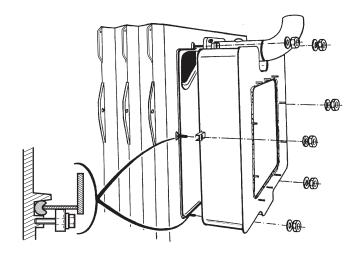
40



Before assembling the flue gas box, grease all bolts, studs and screws with high-temperature grease (field supplied).

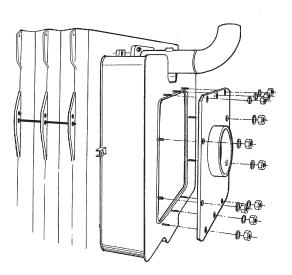
- Put in place the thermocord .
- Put the sweeping cover in place and fasten with 2 nuts H10 and Ø ³/8"/10mm washers.

29. Assembling the flue gas outlet



The flue gas outlet is fastened to the rear by means of 6 studs, washers and Ø 9/16"/12mm nuts.

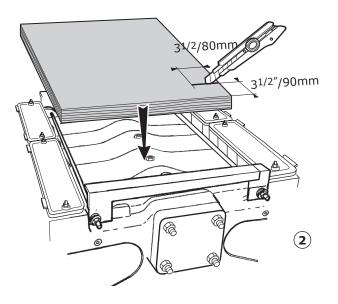
31.



First attached the steel connecting plate to the chimney connection flue; then fasten that plate or the plate with a connecting piece with 10 nuts H10 and 3/8"/10 washers.

32. Installing the top insulating material (FA30 to FA36)

GT 530A-15 to Gt 530A-17

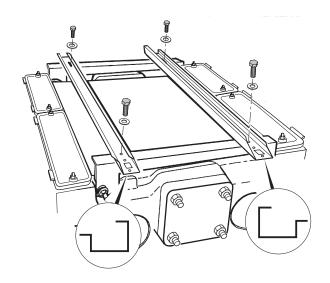


(2) Front

Put in place the 23^{5/8}" 600mm mm wide (packages FA35 to FA36) top insulating material on the body of the boiler

Number of section	GT 530A-15+16	GT 530A-17	
Length (mm)	82 ^{11/16} "/ 2,100	86 ^{5/8} /2,200	

33. Installing the cable channels (FA16 to FA27)

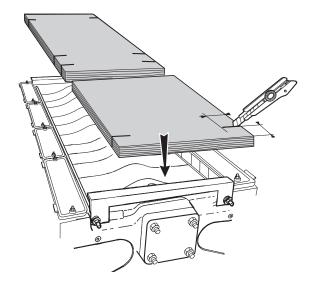


- Place the cable channels so that their bevelled end is at the front.
- ▶ Fasten with 2 screws H8 x 16 and L8 washers in the third hole starting from the front and opposite the special nut.
- Fasten at the rear with 2 screws H8 x 16 and L8 washers opposite the oblong holes and special nut.

1 Rear

34. Installing the top insulating material (FA37 to FA41)

GT 530A-18 to Gt 530AE-32

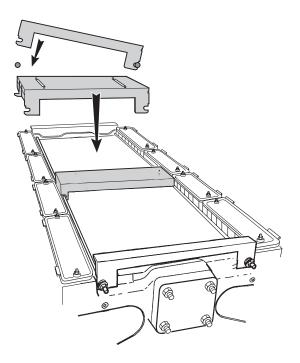


- > Put in place the 2 pieces of insulating material (width 600 mm; packages FA37 to FA41) on the body of the boiler.
- > Push the insulating material under the front and rear crosspieces.
- > 26-32 sections Use provided spare insulation and cut to fit the gap.

35. Installing the intermediate piece (MR 245)

GT 530A-18 to Gt 530A-25

Assemble the intermediate piece on the assembly rods by fitting one slotted side onto one rod and using the flexibility of the other rod.



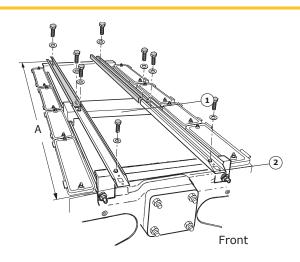
36. Installing the cable channels (FA16 To FA24)

GT 530A-18 to Gt 530A-25

- 1 Package FA16
- 2 Package FA17 to FA24

GT 530Ae-26 to Gt 530Ae-32

- 1 Package FA18-FA24-Mount
- 2 Package FA24-Reversed



GT 530A

Number of sections	18	19	20	21	22	23	24	25
Length(in/mm)	98.87″/2,510	102·37″/2,600	110.25″/2,800	114.25″/2,910	118.12″/3,000	122·43″/3,110	126″/3,200	130.31″/3,310

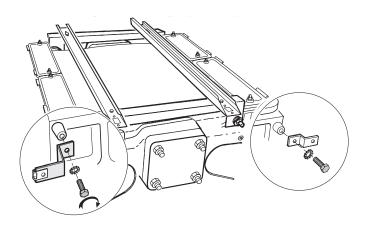
GT 530AE

Number of sections	26	27	28	29	30	31	32
Length(in/mm)	134.6/3420	138.9/3530	143.3/3640	147.6/3750	151.9/3860	156.2/3970	160.6/4080

- Place the cable channels so that their bevelled end is to the front.
- Fasten with 2 screws H8 x 16 and L8 washers in the third hole starting from the front and opposite the special nut.
- Fasten them to the intermediate piece and the rear crosspieces with 2 screws H8 x 16 and L8 washers.
- Align the 2 additional cable channels with the two others.
- Fasten them to the intermediate piece and the rear crosspieces with 4 screws (H8 x 16) and L8 washers.

37. Installing the casing positioning brackets (MA 245 or MA246)

▶ Fasten the positioning brackets (package MR245 or MR226) onto the right and left-hand upper bosses of the front section with : 2 screws H8 x 16 and 2 serrated washers (1/2" /13mm wrench).

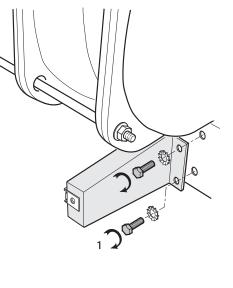


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38. Installing the lower rail support brackets (MA245 or MA 246)

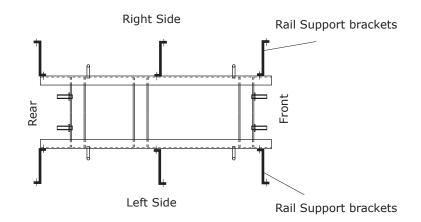
- Example for a GT 530A
- ► Fasten the lower rail support brackets using H8 x 16 screws + Serrated washer.

Note: For the assembly direction, see the following drawings

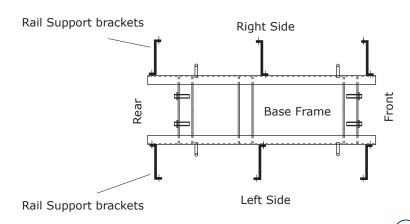


39. Assembly Direction of lower rail Support bracket

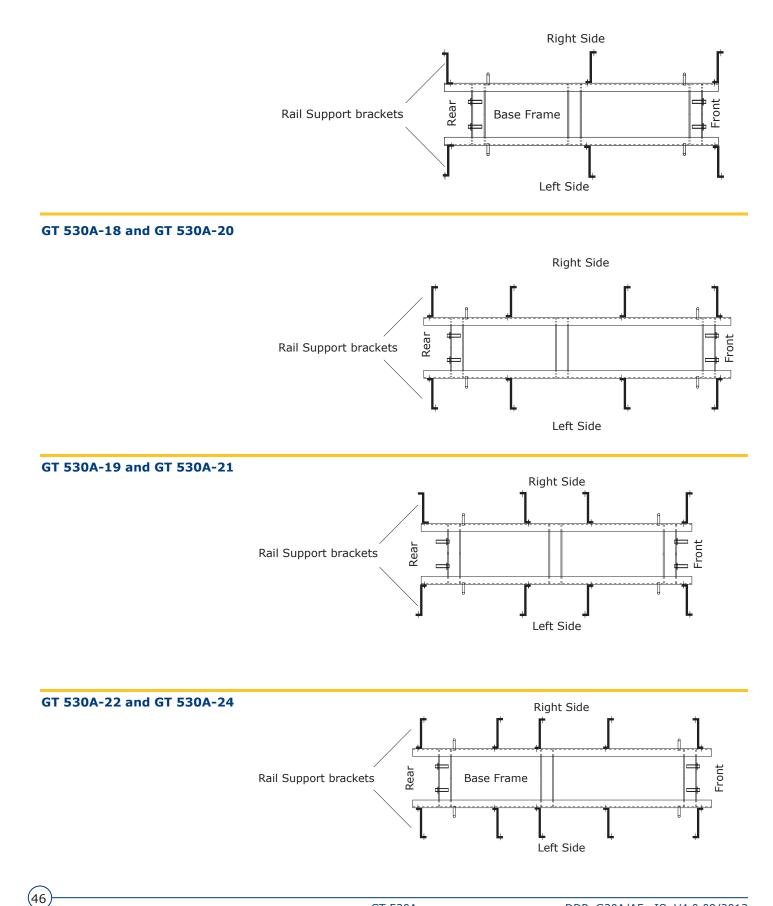
GT 530A-15 and Gt 530A-15



GT 530A-16

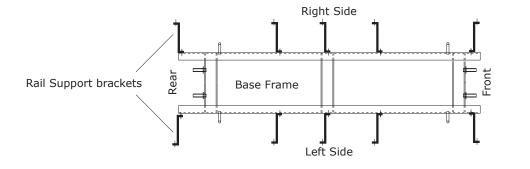


GT 530A-17

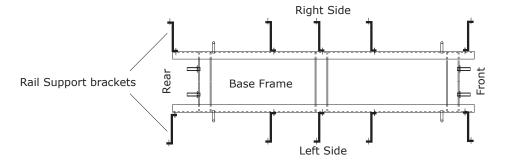


Assembly and Set up

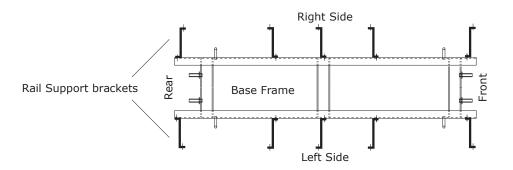
GT 530A-23 and GT 530A-25



GT 530AE-26 /27/28/29/32



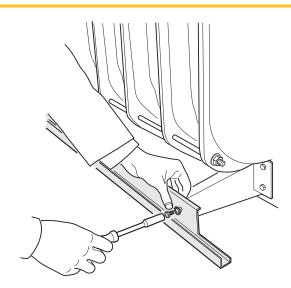
GT 530AE-30 /31



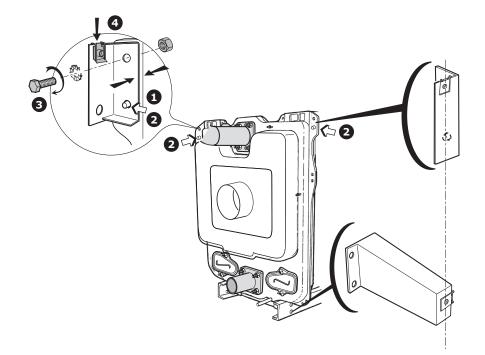
40. Installing the lower rail support brackets (FA17 to FA27)

GT 530A-18 and GT 530A-20

- ► Fasten the lower rail with H8 x 30 screws and L8 washers.
- The other rail support brackets are fastened opposite the holes provided on the lower rail.
 - Length required while assembling the 2-piece rails (boilers with 18 to 25 sections), see fig.12.

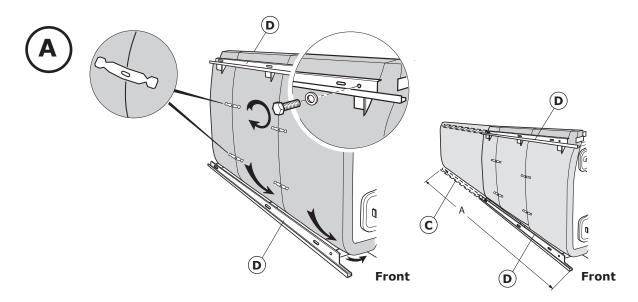


41. Installing the fastening brackets of the upper and lower rails (MR245 or MR246)



- 1. Fix the fastening bracket of the upper rails (MR245 or MR246) on the upper lug (these brackets must be vertically aligned with the lower rail support brackets).
- 2. Fit the bracket onto the stub.
- 3. Fasten with 1 screw H10 \times 50 and serrated washers and H10 nuts.
- 4. Assemble 1 "Rapid" nut on the top of the bracket with the tapped shaft on the inside.

42. Fitting the rails (FA17 to FA27)



A : GT 530A-15 to GT 530A-17

- Fix the upper rail with H8 x 30 screws and L8 washers (the first hole from the front end of the rail must be opposite the first fastening bracket, and similarly with the other brackets).
- Push the installation behind the lower rail and underneath the boiler.
- Join the pieces of installation to each other with the clips.

B : GT 530A-18 to GT 530A-25

- ▶ Fix the upper rail with H8 x 30 screws and L8 washers (the first hole from the front end of the rail must be opposite the first fastening bracket, and similarly with the other brackets).
- Fix the additional upper and lower rails, making sure you comply with dimension A (refer to the table below).
- Push the installation behind the lower rail and underneath the boiler.
- Join the pieces of installation to each other with the clips.

C: 26-30 sections

Some modification may be required

Boiler	Package (C)	Package (D)
GT 530A-15		FA 25
GT 530A-16		FA 26
GT 530A-17		FA 27
GT 530A-18	FA 16	FA 17
GT 530A-19	FA 16	FA 18
GT 530A-20	FA 16	FA 19
GT 530A-21	FA 16	FA 20
GT 530A-22	FA 16	FA 21
GT 530A-23	FA 16	FA 22
GT 530A-24	FA 16	FA 23
GT 530A-25	FA 16	FA 24
GT 530AE-26	FA 18	FA 24
GT 530AE-27	FA 19	FA 24
GT 530AE-28	FA 20	FA 24
GT 530AE-29	FA 21	FA 24
GT 530AE-30	FA 23	FA 24
GT 530AE-31	FA 24	FA 24
GT 530AE-32	FA 24	FA 24

Length required while assembling the 2-piece rails (boiler with 18 to 25 sections):

Number of sections	18	19	20	21	22	23	24	25
Length(mm-A)	98·43″ /2500	103"/2615	108.87″/2765	114.25/22875	116.75/2965	121.06/3075	124.83″/3165	12893/3275

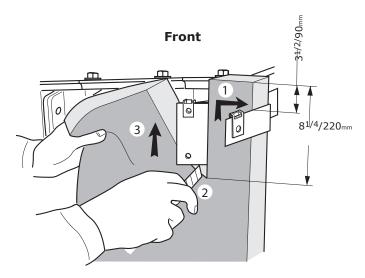
Length required while assembling the 2-piece rails (boiler with 26 to 32 sections):

Number of sections	26	27	28	29	30	31	32
Length(mm-A)	133.2/3385	1375/3495	141.9/3605	146.2/3715	150.5/3825	154.9/3935	159.2/4045

43. Installing the insulation

- 1. Place the side insulating material against the positioning bracketand cut it so that it is flush with the upper lug on which the rail fastening bracket is fixed, along a $8^{1/2''}/220$ mm length.
- 2. Push the insulating material in behind the lug and the rail fastening bracket.
- 3. Distribute the insulating material evenly so that you have the same side insulating material on either side of the boiler.

Cut the insulation similary along the fastening brackets.

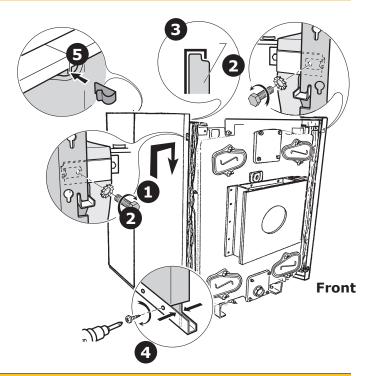


Boiler Model		Side Insulation	on (in/mm)		
Boller Model	Front				····► Rear
GT 530A-15	47 ^{1/4} /1200	15 ^{3/4} /400	15 ^{3/4} /400		
GT 530A-16	47 ^{1/4} /1200	15 ^{3/4} /400	23 ^{5/8} /600		
GT 530A-17	47 ^{1/4} /1200	15 ^{3/4} /400	23 ^{5/8} /600		
GT 530A-18	47 ^{1/4} /1200	471/4/1,200			
GT 530A-19	47 ^{1/4} /1200	47 ^{1/4} /1,200			
GT 530A-20	47 ^{1/4} /1200	15 ^{3/4} /400	15 ^{3/4} /400	23 ^{5/8} /600	
GT 530A-21	47 ^{1/4} /1200	15 ^{3/4} /400	47 ^{1/4} /1,200		
GT 530A-22	47 ^{1/4} /1200	15 ^{3/4} /400	47 ^{1/4} /1,200		
GT 530A-23	47 ^{1/4} /1200	23 ^{5/8} /600	47 ^{1/4} /1,200		
GT 530A-24	47 ^{1/4} /1200	23 ^{5/8} /600	47 ^{1/4} /1,200		
GT 530A-25	47 ^{1/4} /1200	15 ^{3/4} /400	15 ^{3/4} /400		47 ^{1/4} /1,200
GT 530AE-26	47 ^{1/4} /1200	15 ^{3/4} /400	15 ^{3/4} /400		47 ^{1/4} /1,200
GT 530AE-27	47 ^{1/4} /1200	15 ^{3/4} /400	15 ^{3/4} /400	Cut	47 ^{1/4} /1,200
GT 530AE-28	47 ^{1/4} /1200	15 ^{3/4} /400	15 ^{3/4} /400	to	47 ^{1/4} /1,200
GT 530AE-29	471/4/1200	15 ^{3/4} /400	15 ^{3/4} /400	Fit Blank Roll	47 ^{1/4} /1,200
GT 530AE-30	471/4/1200	15 ^{3/4} /400	15 ^{3/4} /400	Supplied	47 ^{1/4} /1,200
GT 530AE-31	47 ^{1/4} /1200	15 ^{3/4} /400	15 ^{3/4} /400		47 ^{1/4} /1,200
GT 530AE-32	47 ^{1/4} /1200	15 ^{3/4} /400	15 ^{3/4} /400		47 ^{1/4} /1,200

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44.

- First assemble the panels on the front side using the assembly length table below and continue up to the rear section.
- 2. Fix the front side panels to the positioning brackets with H8 \times 16 screws and serrated washers.
- Push the insulating material into the top of the side panels with the electric screwdriver (2 screws per panel).
- Fasten the panels to the lower rails by means of the self-drilling screws.
- 5. Fasten the side panels to each other with the clips.



Boiler Type	Side panels (in/mm)					
	Front				Rear	
GT 530A-15	37/940	23 ^{5/8} /600	23 ^{5/8} /600			
GT 530A-16	41 ^{3/8} /1050	235/8/600	235/8/600			
GT 530A-17	37/940	235/8/600	15 ^{3/4} /400	15 ^{3/4} /400		
GT 530A-18	41 ^{3/8} /1050	23 ^{5/8} /600	15 ^{3/4} /400	15 ^{3/4} /400		
GT 530A-19	37/940	235/8/600	235/8/600	15 ^{3/4} /400		
GT 530A-20	37/940	23 ^{5/8} /600	23 ^{5/8} /600	23 ^{5/8} /600		
GT 530A-21	41 ^{3/8} /1050	235/8/600	235/8/600	235/8/600		
GT 530A-22	37/940	235/8/600	235/8/600	15 ^{3/4} /400	15 ^{3/4} /400	
GT 530A-23	41 ^{3/8} /1050	23 ^{5/8} /600	23 ^{5/8} /600	15 ^{3/4} /400	15 ^{3/4} /400	
GT 530A-24	37/940	235/8/600	235/8/600	235/8/600	15 ^{3/4} /400	
GT 530A-25	MR4	23 ^{5/8} /600	23 ^{5/8} /600	23 ^{5/8} /600	15 ^{3/4} /400	
GT 530Ae-26	MR4	FA11	FA11	FA10	FA10	FA10
GT 530Ae-27	MR4	FA11	FA11	FA11	FA10	FA10
GT 530Ae-28	MR5	FA11	FA11	FA11	FA10	FA10
GT 530Ae-29	MR4	FA11	FA11	FA11	FA11	FA10
GT 530Ae-30	MR4	FA11	FA11	FA11	FA11	FA11
GT 530Ae-31	MR5	FA11	FA11	FA11	FA10	FA10
GT 530Ae-32	MR4	FA11	FA11	FA11	FA11	FA10 FA10

Panels:

15^{3/4"}/400mm long panel in package (FA10) 23^{5/8"}/600mm long panel in package (FA11) 37"/940mm long panel in package (MR4) 41^{3/8}/1,050mm long panel in package (MR5)

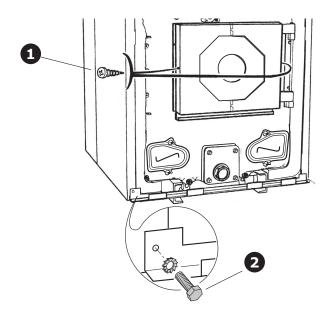
45.

Installing the boiler door and lower crosspiece bracket (MR 245 or MR 246)

- 1. Put the boiler door in place (package MR245 or MR246) and fasten with 2 tapping screws (Ø 3.94 x 12.7). The boiler door may be cut in 2 at the micro-joints.
- 2. Attach the casing support lower crosspiece (package MR245 or MR246) with 2 screws (H6 x 20) and 2 serrated washers.

Note :

- A 1/8 diameter hole needs to be drilled on each side of the burner mounting plate to accept the 2 self tapping screws.
- On the larger model bolt hole patterns, you must clear the boiler door to clear the 4 mounting studs for the burner door

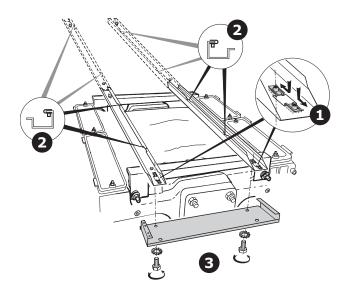


46.

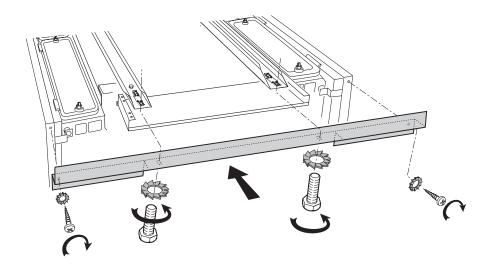
52

Installing the control panel bracket (MR245 or MR246)

- 1. Fit the 4 "Rapid" nuts on the front of the cable channels.
- Fit the "Rapid" nuts in the slots:
 4 "Rapid" nuts for 15 to 17 sections.
 8 "Rapid" nuts for 18 to 25 sections.
- 3. Attach the control panel bracket (package MR245 or MR246) underneath the 2 cable channels by means of 2 screws (H8 x 16) and 2 serrated washers.

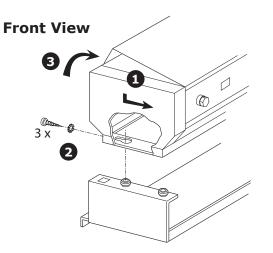


47. Standard control panel (MD5 and MR246)

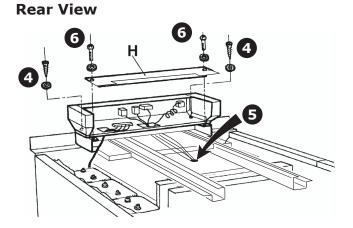


Put the front crosspiece in place (package MR245 or MR246) and fasten with 2 screws (H8x30) and Ø 3.94 tapping screws (x 12.7) and serrated washers.

48. Installing the MD5 control panel



- 1. Position the control panel on the rear bushes.
- 2. Remove the 3 screws .
- 3. Open the control panel (3 screws at the back).
- 4. Secure the control panel (2 self-tapping screw 3,94 x 25 + Serrated washers).



- 5. Carefully unroll the various temperature sensor bulbs and bring them out of the control panel through the opening in the bottom on the panel. Cut out the top instulation to free the boiler pocket.
- 6. Secure the rear cover H (MR245 or MR246) to the panel support using 2 screws EC CB 4 x 40 and serrated washers. Close the control panel.

49. Electrical Connections

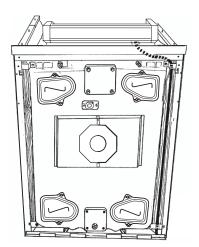
All connections are made with the terminal boxes designed for that purpose on the back of the boiler's control panel

Bring the **burner cable** behind the casing support and down to the burner between the side panel and insulating material.

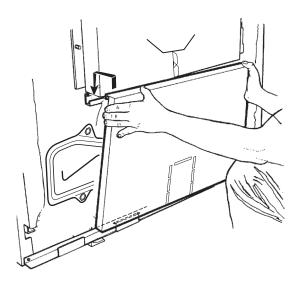


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Refer to the control panel instructions to make the electrical connections. see the "Electrical connections" section of the instructions supplied with the control panel

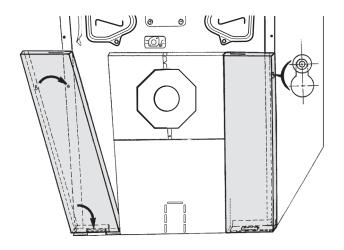


50. Installing the lower front panel (MR245 or MR246)

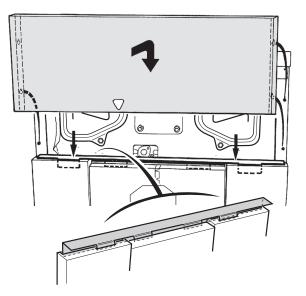


- Place the insulation in the lower central front panel (black cloth facing outward).
- Fit the lower central front panel (package FA5 or FA6) onto the lower front crosspiece and attach it to the boiler door.

51. Installing lower front side panels (MR245 or 246)

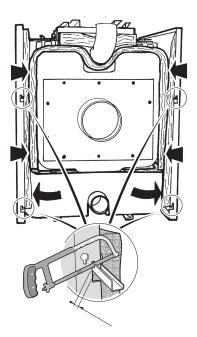


52. Installing the front top panel (MR245 or MR246)



- Place the retaining crosspiece on the left and right-hand front panels, taking care to place the 2 central tabs behind the furnace door panel.
- Attach the upper front panel onto the side panels via the 4 studs.

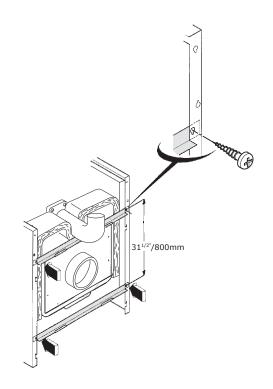
53. Installing the Fluegas box insulation (MR245 or 246)



- ▶ Install in place the flue gas box insulation and the lower rear insulation.
- ▶ If the side crosspieces overlap at the rear by more than 7/8"/10mm, we advise you to saw them off using a hacksaw.

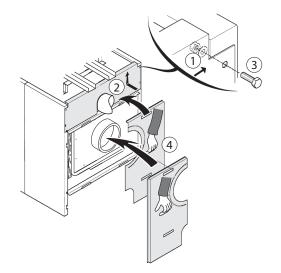
54. Installing the rear crosspieces (MR245 or 246)

Attach the 2 rear crosspieces (package MR245 or MR246) behind the bend of the rear side panels and fasten each crosspiece to the side panels using 2 screws (Ø 3.94 x 12.7).



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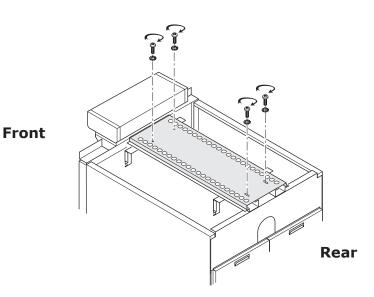
55. Installing the rear casing panel (MR245 or 246)



- 1. Attach the 2 clip-on nuts on the side panels.
- 2. Attach the upper rear panel onto the studs and push it up.
- 3. Fasten with 2 screws H8 x 16 and serrated washers.
- 4. Attach the 2 lower rear panels onto the rear crosspieces.

56. Installing the cable channel Cover:

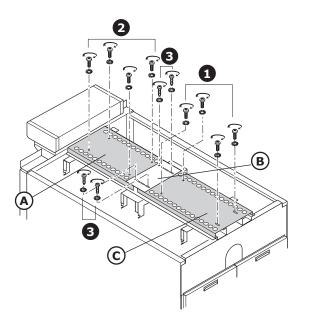
GT 530A-15 to GT 530-17



- > Position the central plate on the cable channels with the round holes towards the front of the boiler.
- Attach with H8 x 30 screws and serrated washers.

57. Installing the side covers

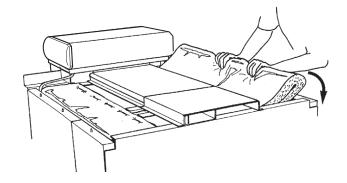
GT 530A-18 to Gt 530A-25



- A Package FA17 to FA24
- B Package MR246
- C Package FA16
- 1. Position the rear plate, which is $47^{1/4}$ /1200 mm long. Attach 2 screws H8 x 30 and serrated washers.
- 2. Position the front plate with the round holes towards the front of the boiler. Attach 4 screws H8 \times 30 and serrated washers.
- 3. Attach the joining plate with the round holes towards the front of the boiler with 4 tapping screws and serrated washers.

55. Installing the sweeping cover insulation (FA35 to FA41)

- Put in place the sweeping cover insulation
 - GT 530A-15 to GT 530A-17 : 2 pieces.
 - GT 530A-18 to GT 530A-25 : 4 pieces.

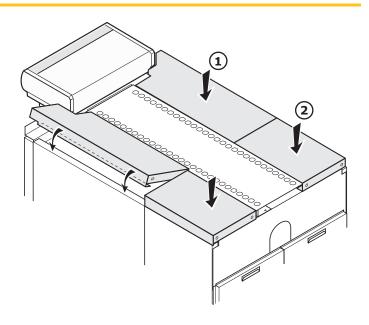


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56. Installing the side Covers (FA5 to FA11)

1 Package FA8 to FA9.

- 2 Package FA10 to FA11
- Place the side covers from the front to rear. They have the same lengths as the side panels.



Boiler Type	vpe Side panels (in/mm)					
	Front				Rear	
GT 530A-15	37/940	235/8/600	235/8/600			
GT 530A-16	41 ^{3/8} /1050	23 ^{5/8} /600	23 ^{5/8} /600			
GT 530A-17	37/940	235/8/600	15 ^{3/4} /400	15 ^{3/4} /400		
GT 530A-18	41 ^{3/8} /1050	23 ^{5/8} /600	15 ^{3/4} /400	15 ^{3/4} /400		
GT 530A-19	37/940	235/8/600	235/8/600	15 ^{3/4} /400		
GT 530A-20	37/940	235/8/600	235/8/600	235/8/600		
GT 530A-21	41 ^{3/8} /1050	23 ^{5/8} /600	235/8/600	23 ^{5/8} /600		
GT 530A-22	37/940	235/8/600	235/8/600	15 ^{3/4} /400	15 ^{3/4} /400	
GT 530A-23	41 ^{3/8} /1050	23 ^{5/8} /600	235/8/600	15 ^{3/4} /400	15 ^{3/4} /400	
GT 530A-24	37/940	235/8/600	235/8/600	235/8/600	15 ^{3/4} /400	
GT 530A-25	413/8/1050	235/8/600	235/8/600	235/8/600	15 ^{3/4} /400	
GT 530Ae-26	MR4	FA11	FA11	FA10	FA10	FA10
GT 530Ae-27	MR4	FA11	FA11	FA11	FA10	FA10
GT 530Ae-28	MR5	FA11	FA11	FA11	FA10	FA10
GT 530Ae-29	MR4	FA11	FA11	FA11	FA11	FA10
GT 530Ae-30	MR4	FA11	FA11	FA11	FA11	FA11
GT 530Ae-31	MR5	FA11	FA11	FA11	FA10	FA10
GT 530Ae-32	MR4	FA11	FA11	FA11	FA11	FA10 FA10

Panels:

- $15^{3/4''}$ /400mm long panel in package (FA10)
- 23^{5/8"}/600mm long panel in package (FA11)
- 37"/940mm long panel in package (MR4)
- 41^{3/8}/1,050mm long panel in package (MR5)

Oil or gas connections

Specific technical information supplied with the burner

- The boiler and its individual shutoff valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures in excess of 1/2 psig (3.5kPa).
- The boiler must be isolated from the gas supply piping system by closing its individual manual shutoff valve during any pressure testing of the gas supply piping system at test pressures equal to or less than 1/2 psig (3.5 kPa).
- The boiler shall be installed such that the gas ignition system components are protected from water (dripping, spraying, rain, etc.) during appliance operation and service (circulator replacement, condensate trap, control replacement, etc.).
- The boiler and its gas connection must be leak tested before placing the boiler in operation,
- After placing the boiler in operation, the ignition system safety shutoff device must be tested,

- Provision for vent, bleed and gas relief lines (when applicable).
- A sediment trap must be provided upstream of the gas controls.
- Location of manual main shutoff valve outside the jacket when codes require.

Refer to the instructions Supplied with the burner

Electrical Connections

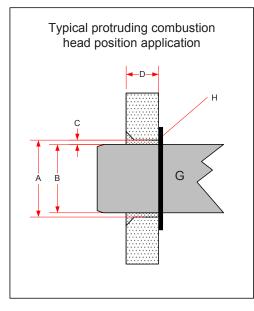
1-Wiring

Wiring in accordance with the requirements of the authority having jurisdiction or, in the absence of such requirements, with the Canadian Electrical Code Part 1, CSA C22.1, Electrical Codes.

A A WARNING

Label all wire prior to disconnecting, when servicing the control. Wiring errors may cause improper and dangerous operation. Verify for proper operation after service.

(60)



А	Overall diameter including gap between head and refratory material, including tappering
В	Burner combustion head diameter (consult burner documentation)
С	0.18 –0.3 Inch gap between combustion head and refractory material
D	Burner door thicknessgt 530a = 5.51" /140Mm

ATTENTION INSTALLER:

The burner as provided may have the burner mounting bolts attached, but the door refractory insulation has not be modified. This must be done by the installer.

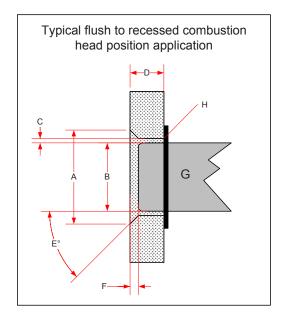
Please consult the burner mounting instructions, for any special modifications required,

The refactory can be easily cut with a sharp knife or any fine tooth cutting blade.

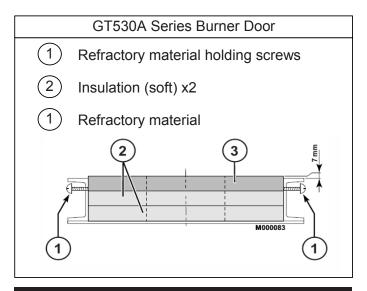
Note:

1. Burners that have a flush combustion head position will require that the insulation be tappered to allow sufficent space for proper flame pattern. Do not recess combustion head inside refractory material more than ½ inch [12mm]

2. Burners that the combustion head is protruding past the refactory material, no tappering is required. Consult burner manufacturer to ensure combustion head protruding into combustion chamber is acceptable.



Е	Degree of tapper required on refactory material to allow proper flame pattern
F	Maximum position combustion head shall be recessed in the refractory material $\frac{1}{4}$ - $\frac{1}{2}$ inch max
G	Burner combustion head
Н	Burner flange with appropiate gasket



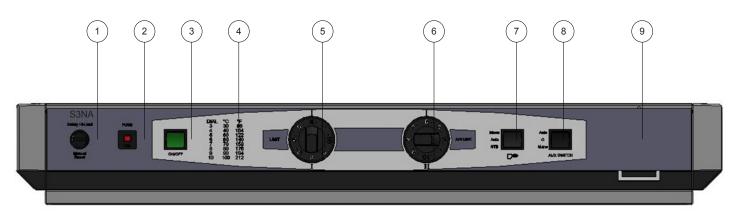
A A WARNING

when cutting refractory special care must be taken or damage to refractory will occur. Damage caused by mistakes will not be covered under warranty.

Connections

De Dietrich Cast Iron Boiler Temperature Controller Model S3NA (standard version)

OVERVIEW OF COMPONENTS

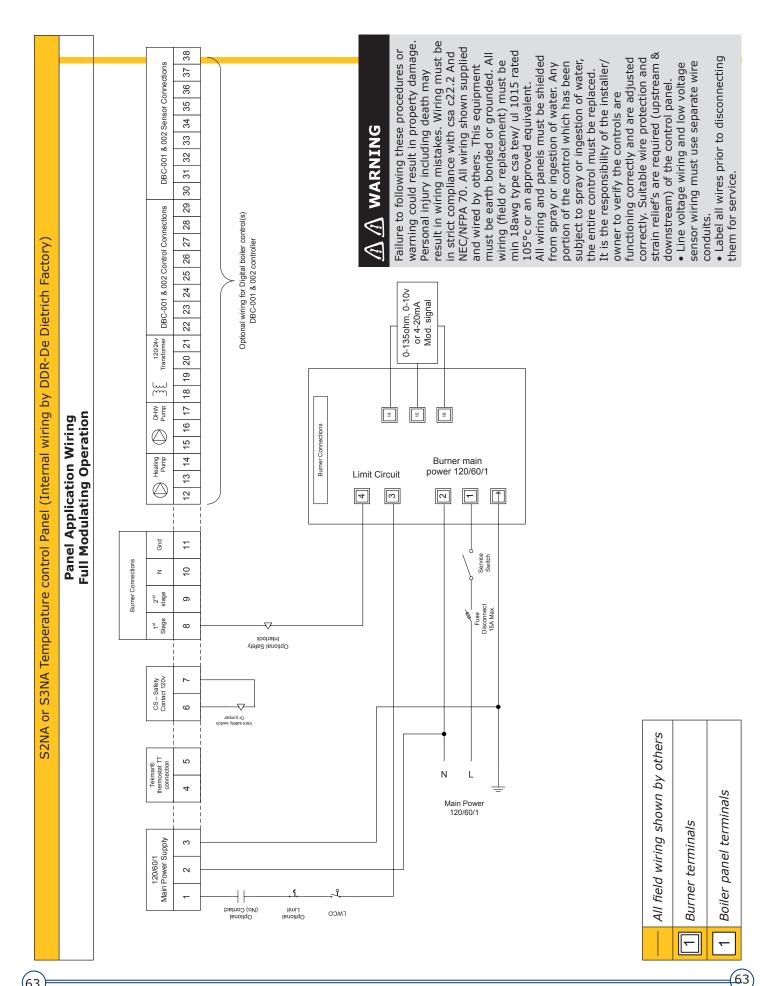


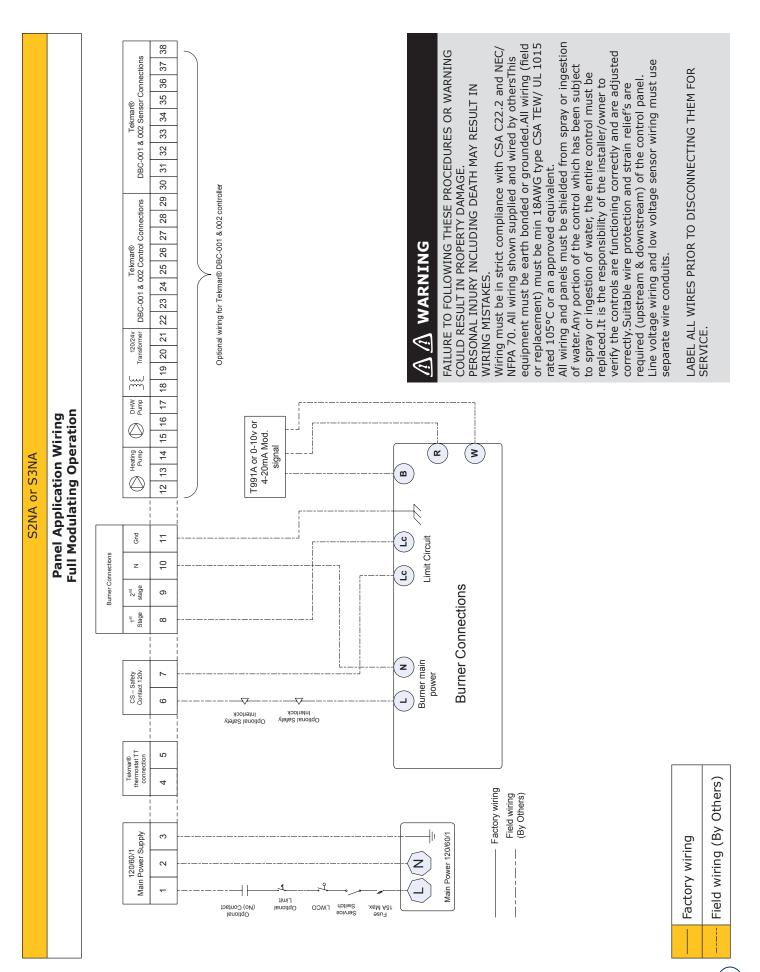
1	Safety Hi-Limit (Manual Reset) Fixed Setting 120°C [248°F]
2	Panel fuse protection (resettable-breaker) 250v 10A rated
3	Main ON/OFF Switch
4	Operating limits dial conversion
5	Limit adjustable 40-100°C [104-212°F]
6	Aux Limit adjustable 40-100°C [104-212°F] op- tionalusage, for 2 stage control (L-H-L) or ad- ditional operating limit, additional relay required not provided
7	Man/Auto/STB 3 position operating switch:Man = Local paneloperationAuto = Remote control operation-separate operating control required. STB = Testing Safety limit function
8	Aux Switch –Optional usage (not part of safety circuit) consult factory for appropriate use and applications.
9	Provisional panel knockout for optional digital control offering (consult factory for availability)

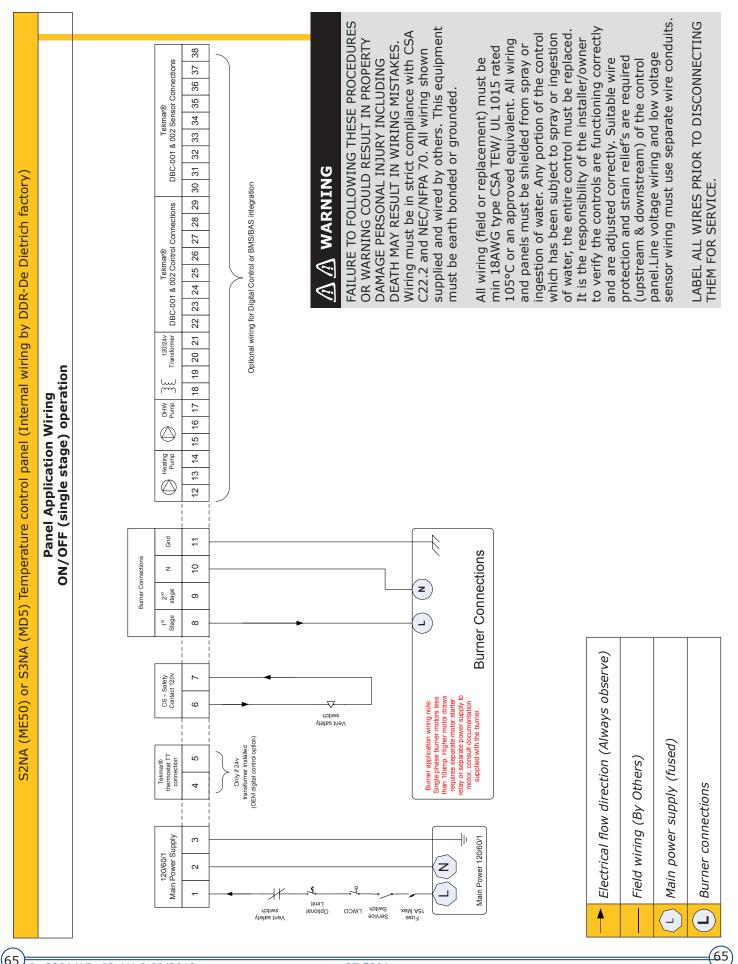
A A WARNING

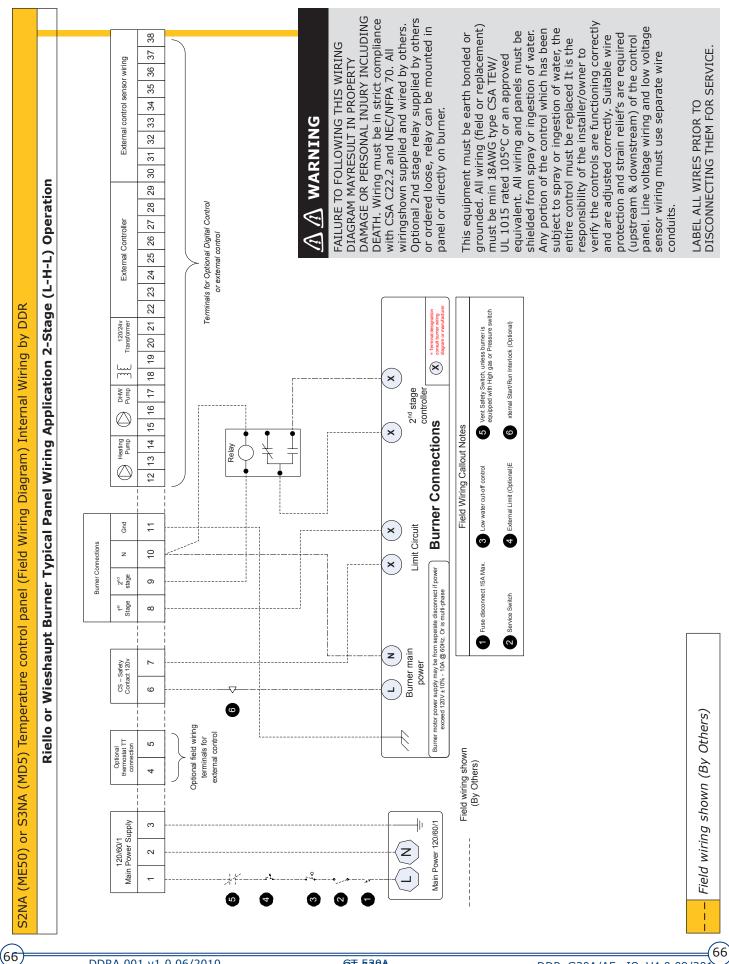
- All replacement and field wiring min 18awg. Type TEW or 1015 CSA/UL approved.
- It is the sole responsibility of the installer/owner that the controls are operating correctly
- Wiring mistake can lead to personal injury (including death) or property damage. Mark all wires when prior to servicing or replacing wires or components.
- All water piping shall be arranged to avoid spray or ingestion of water on control
- Do not operate control if ingested or damaged by water. Do not attempt to repair, lockout and tag equipment replace control immediately.

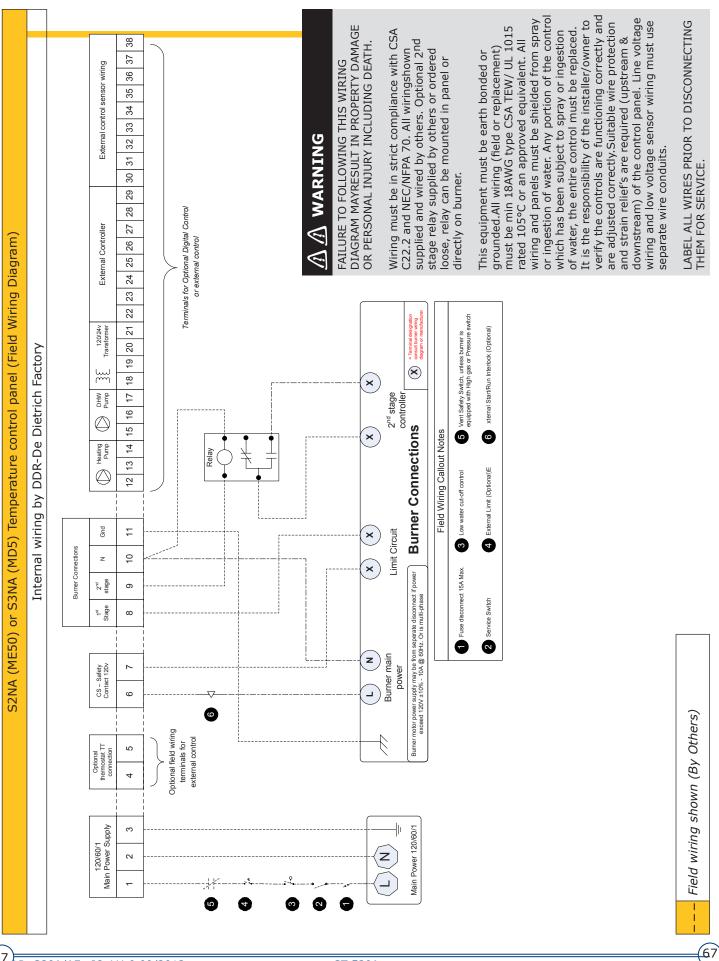
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Filling the system

Filling shall be performed with a low flow rate from a low point in the boiler room in order to ensure that all the air in the boiler is bled from the high point of the system. All the pumps must be stopped before filling (included shunt pump(s)).

i

Refer to the water quality Manual

CAUTION

Instructions for starting up the boiler for the first time after the system is fully or partly drained: If all the air is not bled naturally to an expansion vessel which opens out onto the air, the system must include manual bleeder valves, in addition to automatic bleeder valves with the capability to bleed the system by themselves when it is operating, the manual bleeder valves are used to bleed all the high points of the system and to make sure that the filled system is free of air before the burner is turned on.

CAUTION

Do not add cold water suddenly into the boiler when it ishot.

Sludge removal

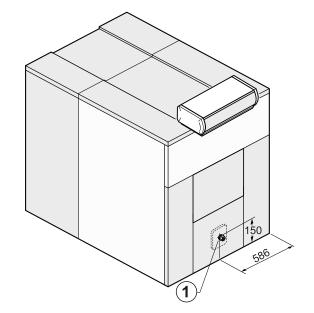
A tapped \emptyset 2" hole with a plug has been provided on the bottom of the front of the boiler. Fit a 1/4 turn valve (not supplied) on the opening to remove the sludge.

Sludge removal leads to the draining of large quantities of water, so remember to refill the system after the operation.



Never replace a boiler in an existing system without carefully rinsing the system first. Install a sludge decanting pot on the return pipe, very close to the boiler.

1) 2" tapped sludge removal hole



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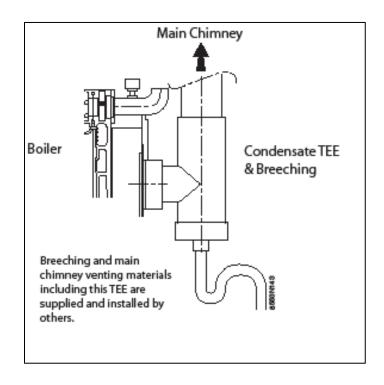
Boiler breeching and main chimney

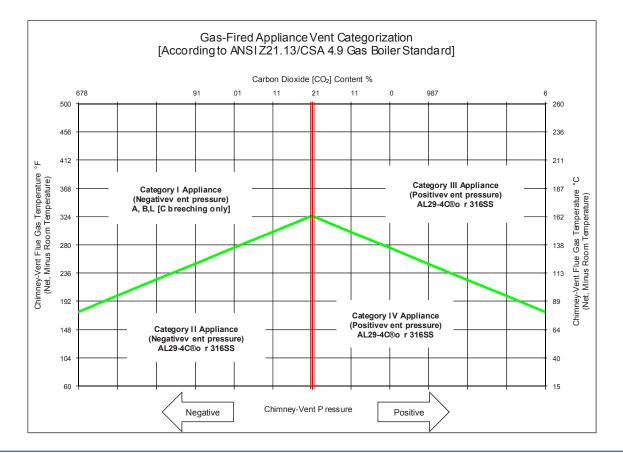
De Dietrich GT Series boilers are a high performance boiler. The flue gas temperature can be less than 320°F [160°C]. Special attention is required for the venting of the boiler according to the specific site operating conditions.

M WARNING

The De Dietrich boiler can be operated at low flue gas temperatures. As a result flue gas condensation may occur and could accumulate in the breeching and main chimney. Suitable provision for flue gas condensation draining is required. A condensate TEE fitting shall be provided on the main chimney as close as possible to the boiler breeching collar (See fig 8553N143). Any horizontal portion of the breeching shall be kept to minimum.

A vent category chart has been provided to further assist the heating specialist to determine and evaluate whether the correct venting is applied for each gas vent category.





Gas Vent Category I - High Temperature Operation Applications:

Consult a chimney-venting specialist or professional engineer for the sizing of the breeching and main chimney in accordance to local and national gas codes CSA B149.1-05 & ANSI Z223.1 (NFPA 54) and sized accordingly to the appropriate tables or methods of chimney vent sizing as local jurisdiction will accept.

- 1. An approved type "B or L" vent may be used under these operating conditions.
 - a. Category I Negative breeching pressure range from 0 to -0.09 inches water column [0 to 0.22 mbar]
 - b. Return water temperature is greater than 140°F [60°C]
 - c. The flue gas temperature is greater than 252°F [122°C] to a maximum of 473°F [245°C]
 - d. Double acting draft control device may be employed, but is not necessary for correct operation of the boiler. Consult a chimney-vent specialist for the correct usage and application.

Application Note: If a barometric draft control is not used it is mandatory that a vent safety device, either equipped on burner or venting (gas, combustion head or vent pressure switch, WMO-1 vent safety switch or FTS-6 spill switch).

Gas Vent Category III - High Temperature Operation Applications:

The vent shall be sized by a chimney venting specialist or professional engineer using methods or vent calculations that are acceptable to National and local codes having jurisdiction.

- 2. Listed Industrial Type Factory Built Chimney system. Listed Type BH Class I/II 245C maximum, or special vent system fabricated from AL29-4C® or SS316L.
 - a. Category III Positive breeching pressure range from 0 to +0.20 inches water column [0 to 0.50mbar]
 - b. The vent shall be sized by a chimney venting specialist or professional engineer using methods or vent calculations that are acceptable to National and local codes having jurisdiction. A maximum 16 ft. [5m] horizontal breeching length to the main chimney TEE fitting. The vent shall then extend vertically 5 ft. [1.5m] minimum to a 246 ft. [75m] maximum, through the ceiling roof.
 - c. Return water temperature is greater than 140°F [60°C]
 - d. The flue gas temperature is greater than 252°F [122°C] to a maximum of 473°F [245°C]
 - e. Do not use any barometric draft control on positive vent pressure systems as flue gas spillage will contaminate inside air quality.

Application Note: it is mandatory that a vent safety device be employed, either equipped on burner or venting (gas, combustion head or vent pressure switch)

Oil or Dual Fuel Applications:

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- a. Listed Industrial Type Factory Built Chimneys system or special vent system fabricated from AL29-4C® or SS316L sized in accordance to the appropriate table in the CSA B139-00 or NFPA 31.
- b. Negative breeching pressure range from 0 to -0.09 inches water column [0 to 0.22 mbar]
- c. A single acting draft control device may be employed as required, but is not necessary for correct operation of the boiler. Consult a chimney-vent specialist for the correct usage and application.

Application Note: If a barometric draft control is not used it is mandatory that a vent safety device, either equipped on burner or venting (gas, combustion head or vent pressure switch, WMO-1 vent safety switch or FTS-6 spill switch).

Gas Vent Category II, III & IV - Low Temperature Operation Applications:

These vent systems shall be sized by a chimney venting specialist or professional engineer using methods or vent calculations that

are acceptable to National and local codes having jurisdiction Listed Industrial Type Factory Built Chimney system.

- 1. Listed Type BH Class I/II 245C maximum, or special vent system fabricated from AL29-4C® or SS316L.
- 2. The vent shall then extend vertically 5 ft. [1.5m] minimum to a 246 ft. [75m] maximum, through the ceiling roof.
- Condensate drain TEE fitting shall be provided on the boiler breeching as close a practical to avoid any
 accumulation of flue gas condensation
- 4. Follow the vent manufacturers recommended and supplied instructions regarding, vent connection cleaning, sealing, supporting.
- 5. Category II Negative breeching pressure range from 0 to -0.09 inches water column [0 to 0.22mbar]
- Category III & IV Positive breeching pressure range from 0 to +0.20 inches water column [0 to 0.50mbar]
 Do-not use a barometric draft control on positive vent pressure systems as flue gas spillage will contaminate the
- inside air quality.

Application Note: it is mandatory that a vent safety device be employed, either equipped on burner or venting (gas, combustion head or vent pressure switch)

APPLICATION NOTE: (Other than Sidewall or Direct Vent, sealed combustion air applications)

All venting systems must be sized by experienced venting specialists using available codes or by acceptable engineering methods,

a final sizing sheet of the venting and calculation must show how the venting was sized and designed. A final approval by local

authorities is advised. The calculation sheet shall be secured and a copy provided on site.

WARNING-CAUTION: (General Venting)

- For low temperature operating applications, it is recommended to use vent types `BH' (AL29-4C®) or SS316L, provided the venting is listed to ULCS636-1995 or UL 1738 or as stipulated in CSA B149.1-05 or ANSI Z223.1/ NFPA 54 Type `BH' Class I/II-245C maximum. Consult a qualified venting supplier/specialist for assistance in sizing and selections of suitable venting.
- Do not puncture or drill holes in the chimney or venting unless as described by the venting manufacturer printed instructions.
- The chimney must be finished with a rain cap or finishing cone and must provide suitable protection against rain, downdrafts, birds and rodents.
- Pipe the condensate drain separately to a floor drain or condensate pump/sump.
- Use only materials that are designed and acceptable for use with condensate for the condensate piping.
- Each condensate drain must contain an (P-Trap) anti-siphon/pigtail to prevent the flue gas flow through the condensate piping.
- Consult local authorities and national codes regarding the disposal of flue gas condensate into public waste water system.
- Flue gas condensate is very aggressive and corrosive, which could lead to failure of the venting system or drains.
- Do not install any fittings in the condensation lines.
- The flue gas condensation may require a neutralization system before entering the drain. Consult a chemical treatment company for neutralizer system.
- If a flue gas condensation neutralization system has been installed, a posted routine inspection schedule shall be posted for periodic monitoring and cleaning of the condensate collection and disposal system. Routine inspections shall determine that there is no blockage in the condensate fittings or lines and that the condensate flows freely on a daily basis. Condensation neutralization materials requires replenishing, the PH level shall be maintained around 7 (neutral). Consult a water chemical specialist for application and maintenance assistance.
- Any horizontal portions of the breeching or main chimney must be sloped upwards 1/4" per linear foot [21mm/m] from the boiler to the vent terminal.
- The boiler requires a vent system that will produce sufficient draft at all times to ensure safe and correct operation of the boiler. The vent system must exhaust all flue gases to the outside in a safe and effective manner.
- An improperly sealed venting system could result in carbon monoxide (CO) poisoning. Ensure adequate support and fastening of the vent system, according to the vent manufacturers recommended or supplied instructions for proper support, fastening and sealing requirements.
- Co-venting with other appliance shall conform to NFPA 54/ANSI Z223 or CSA B149.1-05 gas installation code and sized in accordance to the appropriate table in Annex C. as applicable. Any unused opening must be sealed.
- Any improper operation of the venting system shall be corrected.
- Operating the De Dietrich GT Series boiler at low return/supply temperatures will cause a reduction of the flue gas temperature, creating excessive wet-vent periods or flue gas temperatures nearing the dew point temperature. In these applications the venting material must be able to resist corrosion of flue gas condensation.

1 Specific technical information supplied with the burner

- The boiler and its individual shutoff valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures in excess of 1/2 psi (3.5kPa),
- The boiler must be isolated from the gas supply piping system by closing its individual manual shutoff valve during any pressure testing of the gas supply piping system at test pressures equal to or less than 1/2 psi (3.5 kPa),
- The boiler shall be installed such that the gas ignition system components are protected from water (dripping, spraying, rain, etc.) during appliance operation and service (circulator replacement, condensate trap, control replacement, etc.),
- The boiler and its gas connection must be leak tested before placing the boiler in operation,
- After placing the boiler in operation, the ignition system safety shutoff device must be tested,
- Provision for vent, bleed and gas relief lines (when applicable),
- A sediment trap must be provided upstream of the gas controls,
- Location of manual main shutoff valve outside the

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jacket when codes require.

Electrical

Wiring in accordance with the requirements of the authority having jurisdiction or, in the absence of such requirements, with the Canadian Electrical Code Part 1, CSA C22.1, Electrical Codes.



Warning:

Label all wire prior to disconnecting, when servicing the control. Wiring errors may cause improper and dangerous operation. Verify for proper operation after service.

Combustion air supply must be sized in accordance to local and national codes CSA B149.1 -.2 & CSA B139 ANSI Z223.1 & NFPA 31

FOR YOUR SAFETY READ BEFORE OPERATING

WARNING: /!\

If you do not follow these instructions exactly, a fire or explosion may result causing properly damage, personal injury or loss of life.

A. This appliance does not have a pilot. It is equipped with an ignition device wich automatically lights the burner. Do not try to light the burner by hand.

B. BEFORE OPERATING smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

WHAT TO DO IF YOU SMELL GAS

Do not try to light any appliance. .

•

Do not touch any electric switch; do not use any

phone in your building.

- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.

C. Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, don't try to repair it, call a qualified service technician. Force or attempted repair may result in a fire or explosion.

D. Do not use this appliance if any part has been under water. Immediately call a qualified technician to inspect

and vented of

the appliance and to replace any part of the control system and any gas control which has been under water.	 Waterside of system properly filled and vented air.
	 Lighting instruction followed.
 Inspect for proper baffling insertion into flue passes. All cleanout doors properly sealed. Burner door closed and properly latched. 	 To be performed by a licensed tradesperson in accordance with the guidelines shown in this manual. Follow burner manufactures instruction

- Gas and oil systems ready. Proper vent connections. Required combustion and ventilation air provided.
- own in this es instructions.
- Mandatory factory start-up report to be completed and returned to comply with the warranty process.
- Proper operating instructions of equipment to be related to operating personnel.

Maintenance

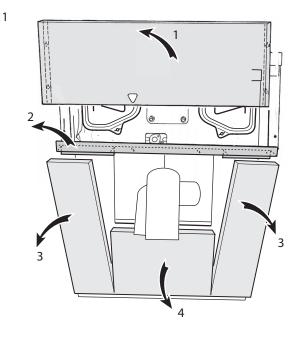
Boiler

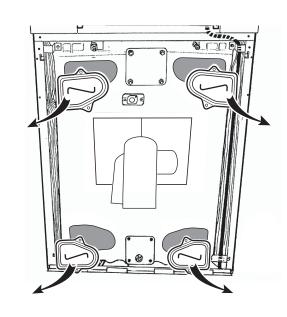
It is not advisable to drain an installation, except in case of absolute necessity. Check regularly the water level of the installation and top it off if necessary, avoiding a sudden inlet of cold water in the hot boiler. This operation can only be done a few times a year ; otherwise, look for the leak and remedy it without delay. The good performance of the boiler depends on its

degree of cleanliness.

2

Cleaning of the boiler must be carried out as often as required and at least, as for the chimney once a year or more, according to the regulations in force. The operations described below shall only be performed with the boiler and the power supply of





• Cleaning flue gas passes:

For this purpose:

- Switch off the electricity supply to the boiler, let boiler cool.

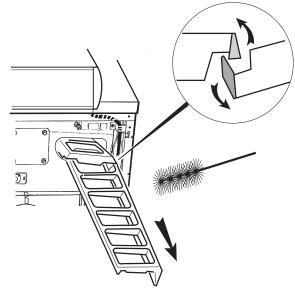
- Remove the upper front panel.

- Remove the retaining upper front crosspiece and then the lower

left and right-hand front panels.

- Remove the lower front panel.

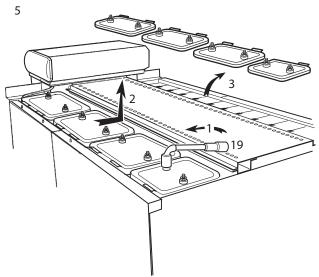
- Unfasten the wing nuts and remove the four cleaning doors.



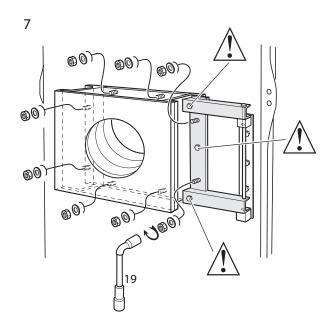
3

- Remove the baffle plates from the upper flue ways.
- Carefully brush the four flue ways with the brush supplied for that purpose.
- Brush the baffle plates as well.
- If possible, use a vacuum cleaner.
- Remove the left and right-hand casing covers.
- Remove the top insulation.

4

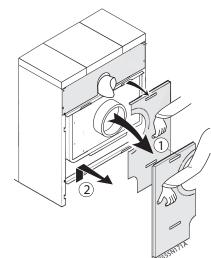


- Unfasten the nuts up to the stop.
- Push in the handles of the cleaning covers.
- Remove the cleaning covers.
- Brush the vertical plates.
- Put back the cleaning covers, insulation and casing covers by reversing the procedure above.
- Put the baffle plates back in place. Interlock them with each other while fitting them into the flue ways.
- Close the upper cleaning doors.

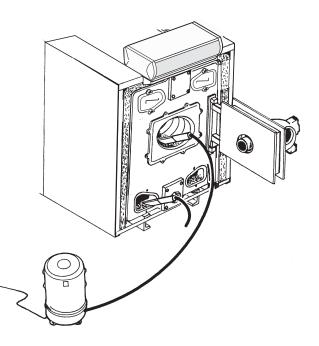


Unscrew the eight closing nuts and open the burner.

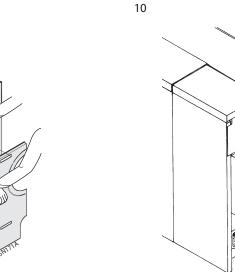
These screws must not be unfastened in any event.



- Remove the lower rear panels.
- Remove the lower rear crosspiece.
- Remove the lower insulation on the rear.



- Brush out the inside of the furnace.
- Clean the soot accumulated in the burner and lower flue ways witha vacuum cleaner.
- Close the lower cleaning doors.
- Put back the front casing panels by reversing the removal procedure.



- Unfasten the wing nuts and remove the lower left and right-hand cleaning doors.
- Remove any soot deposit with a scraper or a vacuum cleaner.
- Open the lower cleaning cover of the flue gas box (two H 10 nuts + \emptyset 10 washers).
- Remove the soot.
- Put back the cleaning cover and doors.
- Put back the lower insulation, the crosspiece and panels by reversing the removal procedure.

5.5 All Side-wall and direct Vent termination locations installation precautions:

- The boiler and the chimney must be carefully cleaned.
- Shut the boiler doors to avoid any air flow inside.

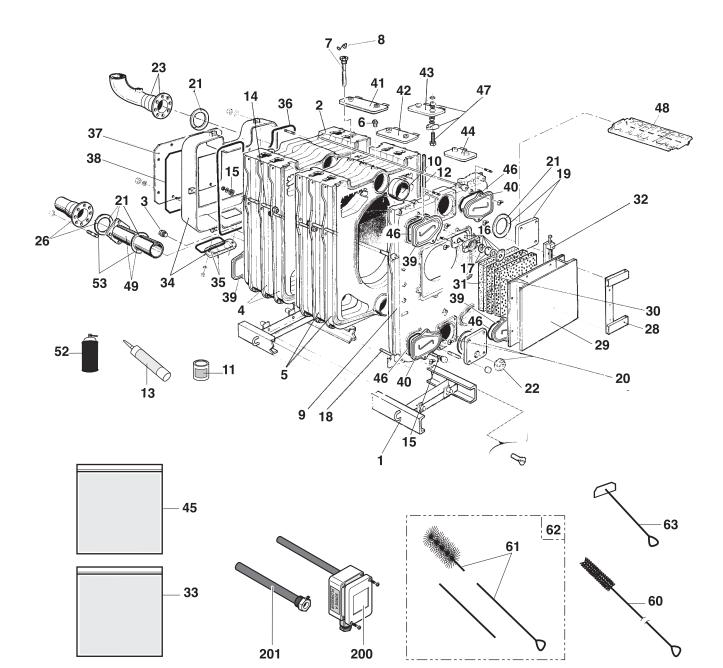
Service and maintenance schedule

- Require annual system inspection of the heating boiler, burner and controls by qualified service personnel,
- Heating system check for safety control functions, system pressure, leaks, combustion and ventilation air should be done on a monthly schedule.

- If the boiler has been stopped for several months, we also advise removing the flue connection and cap it.

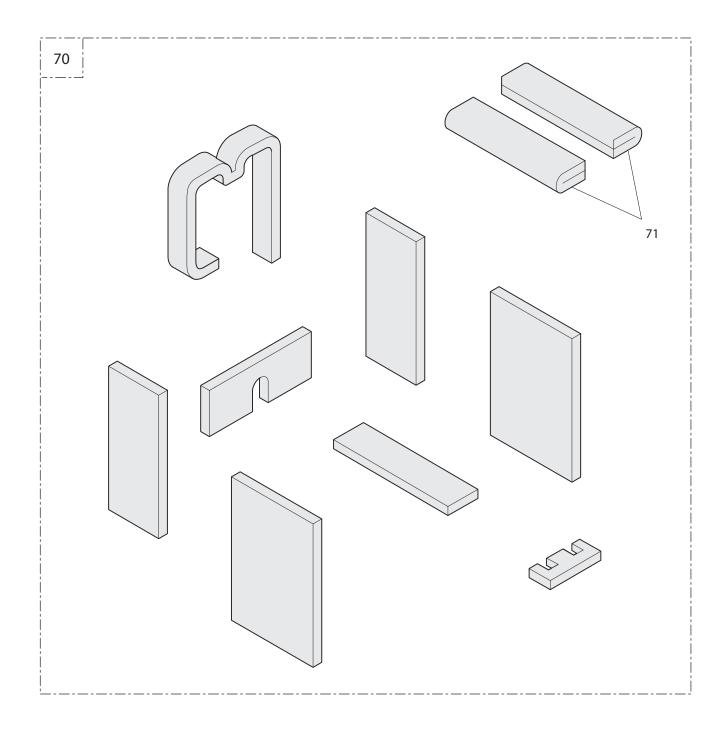
While ordering spare parts, do not forget to provide the code number given in the list opposite the part reference.

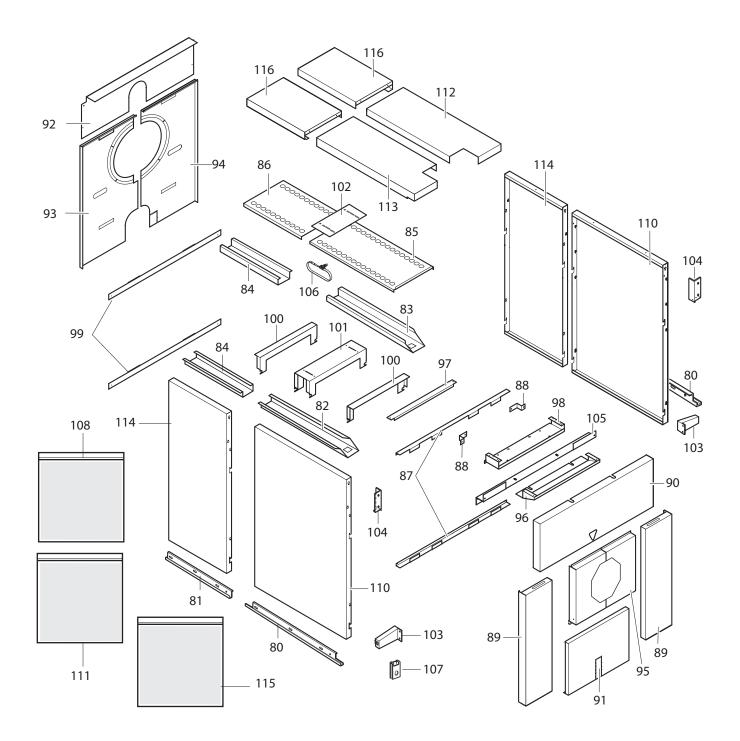
BOILER BODY



(78

Insulation







1 3000-6598 Complete frame 16 and 17 sections 1 3000-6610 Complete frame 20 and 21 sections 1 3000-6611 Complete frame 24 and 25 sections 1 3000-6612 Complete frame 24 and 25 sections 1 3000-6613 Complete frame 26 and 27 sections 1 3000-6614 Complete frame 28 and 29 sections 1 30000-6615 Complete frame 30/31/32 sections Body + accessories 2 8259-8500 Complete rear section 3 9495-0140 3/4" plug. # 290 4 4 8228-0001 Normal intermediate section 5 8228-0001 Normal intermediate section 6 9495-0110 1/2" pocket 8 9758-1286 Spring for pocket 9 8228-0003 Complete front section 10 8006-0212 Painted nipple 148.62 dia. 11 9430-5027 Putty for nipple (300 g) 12 9508-6032 Silicone filler tube (310 ml) 14 8015-8927 Assembly rod, 12 dia 15 ¹ /32" <t< th=""><th>1 3000-6597 Complete frame 15 sections 1 3000-6598 Complete frame 18 and 19 sections 1 3000-6610 Complete frame 20 and 21 sections 1 3000-6611 Complete frame 24 and 25 sections 1 3000-6612 Complete frame 26 and 27 sections 1 30000-6613 Complete frame 26 and 27 sections 1 30000-6614 Complete frame 28 and 29 sections 1 30000-6615 Complete frame 28 and 29 sections 1 30000-6615 Complete frame 28 and 29 sections 3 90495-0140 3/4" plug. # 290 4 8228-0001 Normal intermediate section 5 8228-0002 Special intermediate section 6 9495-0110 1/2" plug. # 290 7 8500-0227 1/2" pocket 8 9758-1286 Spring for pocket 9 8228-0003 Complete framt 26 and 11 10 8006-0212 Painted nipple 148.62 dia. 11 9430-5027 Putty for nipple (300 g) 12 9508-6032</th><th>Ref.</th><th>Code no.</th><th>DESCRIPTION</th></t<>	1 3000-6597 Complete frame 15 sections 1 3000-6598 Complete frame 18 and 19 sections 1 3000-6610 Complete frame 20 and 21 sections 1 3000-6611 Complete frame 24 and 25 sections 1 3000-6612 Complete frame 26 and 27 sections 1 30000-6613 Complete frame 26 and 27 sections 1 30000-6614 Complete frame 28 and 29 sections 1 30000-6615 Complete frame 28 and 29 sections 1 30000-6615 Complete frame 28 and 29 sections 3 90495-0140 3/4" plug. # 290 4 8228-0001 Normal intermediate section 5 8228-0002 Special intermediate section 6 9495-0110 1/2" plug. # 290 7 8500-0227 1/2" pocket 8 9758-1286 Spring for pocket 9 8228-0003 Complete framt 26 and 11 10 8006-0212 Painted nipple 148.62 dia. 11 9430-5027 Putty for nipple (300 g) 12 9508-6032	Ref.	Code no.	DESCRIPTION
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1 3000-6599 Complete frame 18 and 19 sections 1 3000-6610 Complete frame 20 and 21 sections 1 3000-6611 Complete frame 24 and 25 sections 1 3000-6612 Complete frame 26 and 27 sections 1 3000-6613 Complete frame 28 and 29 sections 1 3000-6615 Complete frame 30/31/32 sections Body + accessories 2 8259-8500 Complete rear section 3 9495-0140 3/4" plug. # 290 4 4 8228-0001 Normal intermediate section 5 5 8228-0002 Special intermediate section 6 6 9495-0110 1/2" plug. # 290 7 7 8500-0027 1/2" pocket 8 8 9758-1266 Spring for pocket 9 9 8228-0003 Complete front section 10 10 8006-0212 Painted nipple 148.62 dia. 11 11 9430-5027 Putty for nipple (300 g) 12 12 9508-6032 Silicone filler tube (310 ml) </td <td>1 3000-6599 Complete frame 18 and 19 sections 1 3000-6611 Complete frame 22 and 23 sections 1 3000-6612 Complete frame 24 and 25 sections 1 3000-6613 Complete frame 28 and 29 sections 1 3000-6614 Complete frame 28 and 29 sections 1 3000-6615 Complete frame 30/31/32 sections Body + accessories 2 8259-8500 Complete frame 28 and 29 sections 3 3000-6615 Complete frame 30/31/32 sections 2 Body + accessories 2 8259-8500 Complete frame 28 and 29 sections 3 9495-0110 3/4" plug. # 290 2 4 8228-0001 Normal intermediate section 5 8228-0002 Special intermediate section 10 8006-0212 Painted nipple 148.62 dia. 11 9430-5027 Putty for nipple (300 g) 12 9508-6032 Silicone-coated fiberglass seal (Thermocord) 13 9428-5095 Silicone file tube (310 ml) 14 8015-8920 Assembly rod, 12 dia 16^{17/32}" <td>1</td><td>30000-6597</td><td>Complete frame 15 sections</td></td>	1 3000-6599 Complete frame 18 and 19 sections 1 3000-6611 Complete frame 22 and 23 sections 1 3000-6612 Complete frame 24 and 25 sections 1 3000-6613 Complete frame 28 and 29 sections 1 3000-6614 Complete frame 28 and 29 sections 1 3000-6615 Complete frame 30/31/32 sections Body + accessories 2 8259-8500 Complete frame 28 and 29 sections 3 3000-6615 Complete frame 30/31/32 sections 2 Body + accessories 2 8259-8500 Complete frame 28 and 29 sections 3 9495-0110 3/4" plug. # 290 2 4 8228-0001 Normal intermediate section 5 8228-0002 Special intermediate section 10 8006-0212 Painted nipple 148.62 dia. 11 9430-5027 Putty for nipple (300 g) 12 9508-6032 Silicone-coated fiberglass seal (Thermocord) 13 9428-5095 Silicone file tube (310 ml) 14 8015-8920 Assembly rod, 12 dia 16 ^{17/32} " <td>1</td> <td>30000-6597</td> <td>Complete frame 15 sections</td>	1	30000-6597	Complete frame 15 sections
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1 3000-6612 Complete frame 24 and 25 sections 1 3000-6613 Complete frame 26 and 27 sections 1 3000-6614 Complete frame 28 and 29 sections 8 3000-6615 Complete frame 30/31/32 sections 8 8259-8500 Complete rear section 3 9495-0140 3/4" plug. # 290 4 8228-0001 Normal intermediate section 5 8228-0002 Special intermediate section 6 9495-0110 1/2" plug. # 290 7 8500-0027 1/2" pocket 8 9758-1286 Spring for pocket 9 8228-0003 Complete fr ont section 10 8006-0212 Painted nipple 148.62 dia. 11 9430-5027 Putty for nipple (300 g) 12 9508-6032 Silicone filler tube (310 ml) 14 8015-8927 Assembly rod, 12 dia 11 ¹³ /16" 14 8015-8920 Assembly rod, 12 dia 10 ^{17/32"} 14 8015-8920 Spring for assembly rod 16 8015-7000 Sight glass + ga	1 3000-6612 Complete frame 24 and 25 sections 1 3000-6613 Complete frame 28 and 29 sections 1 3000-6614 Complete frame 30/31/32 sections Body + accessories 2 8259-8500 Complete rear section 3 9495-0140 3/4" plug. # 290 4 4 8228-0001 Normal intermediate section 5 8228-0002 Special intermediate section 6 9495-0110 1/2" plug. # 290 7 8500-0027 1/2" pocket 8 9758-1286 Spring for pocket 9 8228-0003 Complete from section 10 8006-0212 Painted nipple 148.62 dia. 11 9430-5027 Putty for nipple (300 g) 12 9508-6032 Silicone coated fiberglass seal (Thermocord) 13 9428-5095 Silicone filler tube (310 ml) 14 8015-8928 Assembly rod, 12 dia 11 ³ /16" 14 8015-8929 Assembly rod, 12 dia 15 ¹ /32" 14 8015-8915 Assembly rod, 14 dia 70 ⁴ /5/64", 15 sections </td <td>1</td> <td>30000-6610</td> <td>Complete frame 20 and 21 sections</td>	1	30000-6610	Complete frame 20 and 21 sections
1 3000-6613 Complete frame 26 and 27 sections 1 3000-6615 Complete frame 28 and 29 sections 80dy + accessories 2 2 8259-8500 Complete rear section 3 9495-0140 3/4" plug. # 290 4 8228-0001 Normal intermediate section 5 8228-0002 Special intermediate section 6 9495-0110 1/2" plug. # 290 7 8500-0027 1/2" pocket 8 9758-1286 Spring for pocket 9 8228-0003 Complete fr ont section 10 8006-0212 Painted nipple 148.62 dia. 11 9430-5027 Putty for nipple (300 g) 12 9508-6032 Silicone-coated fiberglass seal (Thermocord) 13 9428-5095 Silicone filler tube (310 ml) 14 8015-8927 Assembly rod, 12 dia 113/16" 14 8015-8928 Assembly rod, 12 dia 105/32" 14 8015-8930 Assembly rod, 12 dia 1047/32" 14 8015-8915 Assembly rod, 14 dia 70 45/64", 15 sect	1 3000-6613 Complete frame 26 and 27 sections 1 3000-6614 Complete frame 28 and 29 sections 80dy + accessories E 2 8259-8500 Complete rear section 3 9495-0140 3/4" plug. # 290 4 8228-0001 Normal intermediate section 5 8228-0002 Special intermediate section 6 9495-0110 1/2" plug. # 290 7 8500-0027 1/2" pocket 8 9758-1286 Spring for pocket 9 8228-0003 Complete fr ont section 10 8006-0212 Painted nipple 148.62 dia. 11 9430-5027 Putty for nipple (300 g) 12 9508-6032 Silicone filler tube (310 ml) 14 8015-8927 Assembly rod, 12 dia 1113/16" 14 8015-8928 Assembly rod, 12 dia 20"15/32 15 9754-0120 Spring for assembly rod 16 8015-8915 Assembly rod, 12 dia 70 45/64", 15 sections 18 8015-8916 Assembly rod, 14 dia 79/16", 17 sections <td>1</td> <td>30000-6611</td> <td>Complete frame 22 and 23 sections</td>	1	30000-6611	Complete frame 22 and 23 sections
1 30000-6614 Complete frame 28 and 29 sections 1 30000-6615 Complete frame 30/31/32 sections Body + accessories 2 8259-8500 Complete rear section 3 9495-0140 3/4" plug. # 290 4 4 8228-0001 Normal intermediate section 5 8228-0002 Special intermediate section 6 9495-0110 1/2" plug. # 290 7 8500-0027 1/2" pocket 8 9758-1286 Spring for pocket 9 8228-0003 Complete fr ont section 10 8006-0212 Painted nipple 148.62 dia. 11 9430-5027 Putty for nipple (300 g) 12 9508-6032 Silicone-coated fiberglass seal (Thermocord) 13 9428-5095 Silicone filler tube (310 ml) 14 8015-8927 Assembly rod, 12 dia 11 ¹³ /16" 14 8015-8928 Assembly rod, 12 dia 15 ¹⁵ /32" 14 8015-8920 Complete indicator with frame 17 8015-7000 Sight glass + gaskets <td< td=""><td>1 3000-6614 Complete frame 28 and 29 sections 1 3000-6615 Complete frame 30/31/32 sections Body + accessories 2 8259-8500 Complete rear section 3 9495-0140 3/4" plug. # 290 4 4 8228-0001 Normal intermediate section 5 8228-0002 Special intermediate section 6 9495-0110 1/2" plug. # 290 7 8500-0027 1/2" pocket 8 9758-1286 Spring for pocket 9 8228-0003 Complete fr ont section 10 8006-0212 Painted nipple 148.62 dia. 11 9430-5027 Putty for nipple (300 g) 12 9508-6032 Silicone filler tube (310 ml) 14 8015-8927 Assembly rod, 12 dia 11¹³/16" 14 8015-8928 Assembly rod, 12 dia 15¹/32" 14 8015-8920 Complete indicator with frame 17 8015-8915 Assembly rod, 12 dia 70⁴/5/44", 15 sections 18 8015-8916 Assembly rod, 14 dia 70⁴/5/64", 15 sections</td><td>1</td><td>30000-6612</td><td>Complete frame 24 and 25 sections</td></td<>	1 3000-6614 Complete frame 28 and 29 sections 1 3000-6615 Complete frame 30/31/32 sections Body + accessories 2 8259-8500 Complete rear section 3 9495-0140 3/4" plug. # 290 4 4 8228-0001 Normal intermediate section 5 8228-0002 Special intermediate section 6 9495-0110 1/2" plug. # 290 7 8500-0027 1/2" pocket 8 9758-1286 Spring for pocket 9 8228-0003 Complete fr ont section 10 8006-0212 Painted nipple 148.62 dia. 11 9430-5027 Putty for nipple (300 g) 12 9508-6032 Silicone filler tube (310 ml) 14 8015-8927 Assembly rod, 12 dia 11 ¹³ /16" 14 8015-8928 Assembly rod, 12 dia 15 ¹ /32" 14 8015-8920 Complete indicator with frame 17 8015-8915 Assembly rod, 12 dia 70 ⁴ /5/44", 15 sections 18 8015-8916 Assembly rod, 14 dia 70 ⁴ /5/64", 15 sections	1	30000-6612	Complete frame 24 and 25 sections
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Body + accessories 2 8259-8500 Complete rear section 3 9495-0140 3/4" plug. # 290 4 8228-0001 Normal intermediate section 5 8228-0002 Special intermediate section 6 9495-0110 1/2" plug. # 290 7 8500-0027 1/2" pocket 8 9758-1286 Spring for pocket 9 8228-0003 Complete fr ont section 10 8006-0212 Painted nipple 148.62 dia. 11 9430-5027 Putty for nipple (300 g) 12 9508-6032 Silicone-coated fiberglass seal (Thermocord) 13 9428-5095 Silicone filler tube (310 ml) 14 8015-8927 Assembly rod, 12 dia 1113/16" 14 8015-8928 Assembly rod, 12 dia 1617/32" 14 8015-8929 Assembly rod, 12 dia 20"15/32 15 9754-0120 Spring for assembly rod 16 8015-8915 Assembly rod, 14 dia 70 45/64", 15 sections 18 8015-8916 Assembly rod, 14 dia 799/16", 17 sections	Body + accessories 2 8259-8500 Complete rear section 3 9495-0140 3/4" plug. # 290 4 8228-0001 Normal intermediate section 5 8228-0002 Special intermediate section 6 9495-0110 1/2" plug. # 290 7 8500-0027 1/2" pocket 8 9758-1286 Spring for pocket 9 8228-0003 Complete fr ont section 10 8006-0212 Painted nipple 148.62 dia. 11 9430-5027 Putty for nipple (300 g) 12 9508-6032 Silicone-coated fiberglass seal (Thermocord) 13 9428-5095 Silicone filler tube (310 ml) 14 8015-8927 Assembly rod, 12 dia 11 ¹³ /16" 14 8015-8928 Assembly rod, 12 dia 16 ^{17/32"} 14 8015-8920 Complete indicator with frame 17 8015-7000 Sight glass + gaskets 18 8015-8916 Assembly rod, 14 dia 70 45/64", 15 sections 18 8015-8917 Assembly rod, 14 dia 799/16", 17 sections <	1	30000-6614	Complete frame 28 and 29 sections
8259-8500 Complete rear section 3 9495-0140 3/4" plug. # 290 4 8228-0001 Normal intermediate section 5 8228-0002 Special intermediate section 6 9495-0110 1/2" plug. # 290 7 8500-0027 1/2" pocket 8 9758-1286 Spring for pocket 9 8228-0003 Complete fr ont section 10 8006-0212 Painted nipple 148.62 dia. 11 9430-5027 Putty for nipple (300 g) 12 9508-6032 Silicone-coated fiberglass seal (Thermocord) 13 9428-5095 Silicone filler tube (310 ml) 14 8015-8927 Assembly rod, 12 dia 15 ¹⁵ /32" 14 8015-8928 Assembly rod, 12 dia 16 ^{17/32"} 14 8015-8920 Complete indicator with frame 17 8015-7000 Sight glass + gaskets 18 8015-8915 Assembly rod, 14 dia 70 45/64", 15 sections 18 8015-8916 Assembly rod, 14 dia 79 ⁹ /16", 17 sections 18 8015-8917 <td< td=""><td>2 8259-8500 Complete rear section 3 9495-0140 3/4" plug. # 290 4 8228-0001 Normal intermediate section 5 8228-0002 Special intermediate section 6 9495-0110 1/2" plug. # 290 7 8500-0027 1/2" pocket 8 9758-1286 Spring for pocket 9 8228-0003 Complete fr ont section 10 8006-0212 Painted nipple 148.62 dia. 11 9430-5027 Putty for nipple (300 g) 12 9508-6032 Silicone-coated fiberglass seal (Thermocord) 13 9428-5095 Silicone filler tube (310 ml) 14 8015-8927 Assembly rod, 12 dia 11¹³/16" 14 8015-8929 Assembly rod, 12 dia 16^{17/32"} 14 8015-8920 Spring for assembly rod 15 9754-0120 Spring for assembly rod 16 8015-8915 Assembly rod, 14 dia 70 45/64", 15 sections 18 8015-8916 Assembly rod, 14 dia 799/16", 17 sections 18 8015-8917</td></td<> <td>1</td> <td>30000-6615</td> <td>Complete frame 30/31/32 sections</td>	2 8259-8500 Complete rear section 3 9495-0140 3/4" plug. # 290 4 8228-0001 Normal intermediate section 5 8228-0002 Special intermediate section 6 9495-0110 1/2" plug. # 290 7 8500-0027 1/2" pocket 8 9758-1286 Spring for pocket 9 8228-0003 Complete fr ont section 10 8006-0212 Painted nipple 148.62 dia. 11 9430-5027 Putty for nipple (300 g) 12 9508-6032 Silicone-coated fiberglass seal (Thermocord) 13 9428-5095 Silicone filler tube (310 ml) 14 8015-8927 Assembly rod, 12 dia 11 ¹³ /16" 14 8015-8929 Assembly rod, 12 dia 16 ^{17/32"} 14 8015-8920 Spring for assembly rod 15 9754-0120 Spring for assembly rod 16 8015-8915 Assembly rod, 14 dia 70 45/64", 15 sections 18 8015-8916 Assembly rod, 14 dia 799/16", 17 sections 18 8015-8917	1	30000-6615	Complete frame 30/31/32 sections
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18 8015-8916 Assembly rod, 14 dia 75 ^{1/8} , 16" sections 18 8015-8917 Assembly rod, 14 dia 79 ⁹ /16", 17 sections 18 8015-8917 Assembly rod, 14 dia 83 ^{31/32} ", 18 sections 18 8015-8918 Assembly rod, 14 dia 83 ^{31/32} ", 18 sections 18 8015-8919 Assembly rod, 14 dia 88 ^{27/64} ", 19 sections 18 8015-8920 Assembly rod, 14 dia 94 ^{13/32} ", 20 sections 18 8015-8921 Assembly rod, 14 dia 94 ^{55/64} ", 21 sections 18 8015-8921 Assembly rod, 14 dia 103 ^{17/64} , 22 sections 18 8015-8922 Assembly rod, 14 dia 107 ^{23/32} ", 23 sections 18 8015-8923 Assembly rod, 14 dia 107 ^{23/32} ", 23 sections 18 8015-8924 Assembly rod, 14 dia 112 ^{1/8} ", 24 sections 18 8015-8925 Assembly rod, 14 dia 116 ^{17/32} ", 25 sections 18 8015-8925 Assembly rod, 14 dia 116 ^{17/32} ", 25 sections 18 8015-8925 Assembly rod, 14 dia 116 ^{17/32} ", 25 sections 19 8259-5500 Blind square flange + gasket 20 8259-5501 Square flange with 2" tapped hole + gasket 21 9501-4155	188015-8916Assembly rod, 14 dia $75^{1/8}$, $16''$ sections188015-8917Assembly rod, 14 dia $79^{9/16''}$, 17 sections188015-8918Assembly rod, 14 dia $83^{31/32''}$, 18 sections188015-8919Assembly rod, 14 dia $88^{27/64''}$, 19 sections188015-8920Assembly rod, 14 dia $94^{13/32''}$, 20 sections188015-8920Assembly rod, 14 dia $94^{13/32''}$, 20 sections188015-8921Assembly rod, 14 dia $98^{55/64''}$, 21 sections188015-8922Assembly rod, 14 dia $103^{17/64}$, 22 sections188015-8923Assembly rod, 14 dia $107^{23/32''}$, 23 sections188015-8924Assembly rod, 14 dia $112^{1/8''}$, 24 sections188015-8925Assembly rod, 14 dia $116^{17/32''}$, 25 sections188015-8925Assembly rod, 14 dia $116^{17/32''}$, 25 sections198259-5501Square flange with 2'' tapped hole + gasket208259-5501Square flange with 2'' tapped hole + gasket219501-4155Gasket 222 x 169.5 mm228249-00112'' plug238259-1502Flange with outlet piece + gasket268555-5543Flange with return piece + gasket288228-8905Complete articulation of burner plate298259-0538Plain burner door	17	8015-7700	
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18 8015-8918 Assembly rod, 14 dia 83 ^{31/32} ", 18 sections 18 8015-8919 Assembly rod, 14 dia 88 ^{27/64} ", 19 sections 18 8015-8920 Assembly rod, 14 dia 94 ^{13/32} ", 20 sections 18 8015-8920 Assembly rod, 14 dia 94 ^{13/32} ", 20 sections 18 8015-8921 Assembly rod, 14 dia 98 ^{55/64} ", 21 sections 18 8015-8922 Assembly rod, 14 dia 103 ^{17/64} , 22 sections 18 8015-8923 Assembly rod, 14 dia 107 ^{23/32} ", 23 sections 18 8015-8924 Assembly rod, 14 dia 112 ^{1/8} ", 24 sections 18 8015-8925 Assembly rod, 14 dia 116 ^{17/32} ", 25 sections 18 8015-8925 Assembly rod, 14 dia 116 ^{17/32} ", 25 sections 18 8015-8925 Assembly rod, 14 dia 116 ^{17/32} ", 25 sections 19 8259-5500 Blind square flange + gasket 20 8259-5501 Square flange with 2" tapped hole + gasket 21 9501-4155 Gasket 222 x 169.5 mm 22 8249-0011 2" plug 23 8259-1502 Flange with outlet piece + gasket 26 8555-5543 Flange with return piece + gasket <td>18 8015-8918 Assembly rod, 14 dia 83^{31/32}", 18 sections 18 8015-8919 Assembly rod, 14 dia 88^{27/64}", 19 sections 18 8015-8920 Assembly rod, 14 dia 94^{13/32}", 20 sections 18 8015-8920 Assembly rod, 14 dia 94^{13/32}", 20 sections 18 8015-8921 Assembly rod, 14 dia 98^{55/64}", 21 sections 18 8015-8922 Assembly rod, 14 dia 103^{17/64}, 22 sections 18 8015-8923 Assembly rod, 14 dia 107^{23/32}", 23 sections 18 8015-8924 Assembly rod, 14 dia 112^{1/8}", 24 sections 18 8015-8925 Assembly rod, 14 dia 116^{17/32}", 25 sections 18 8015-8925 Assembly rod, 14 dia 116^{17/32}", 25 sections 18 8015-8925 Assembly rod, 14 dia 116^{17/32}", 25 sections 19 8259-5500 Blind square flange + gasket 20 8259-5501 Square flange with 2" tapped hole + gasket 21 9501-4155 Gasket 222 x 169.5 mm 22 8249-0011 2" plug 23 8259-1502 Flange with outlet piece + gasket 26 8555-5543 Flange with return piece + gasket 28<td>18</td><td>8015-8916</td><td></td></td>	18 8015-8918 Assembly rod, 14 dia 83 ^{31/32} ", 18 sections 18 8015-8919 Assembly rod, 14 dia 88 ^{27/64} ", 19 sections 18 8015-8920 Assembly rod, 14 dia 94 ^{13/32} ", 20 sections 18 8015-8920 Assembly rod, 14 dia 94 ^{13/32} ", 20 sections 18 8015-8921 Assembly rod, 14 dia 98 ^{55/64} ", 21 sections 18 8015-8922 Assembly rod, 14 dia 103 ^{17/64} , 22 sections 18 8015-8923 Assembly rod, 14 dia 107 ^{23/32} ", 23 sections 18 8015-8924 Assembly rod, 14 dia 112 ^{1/8} ", 24 sections 18 8015-8925 Assembly rod, 14 dia 116 ^{17/32} ", 25 sections 18 8015-8925 Assembly rod, 14 dia 116 ^{17/32} ", 25 sections 18 8015-8925 Assembly rod, 14 dia 116 ^{17/32} ", 25 sections 19 8259-5500 Blind square flange + gasket 20 8259-5501 Square flange with 2" tapped hole + gasket 21 9501-4155 Gasket 222 x 169.5 mm 22 8249-0011 2" plug 23 8259-1502 Flange with outlet piece + gasket 26 8555-5543 Flange with return piece + gasket 28 <td>18</td> <td>8015-8916</td> <td></td>	18	8015-8916	
18 8015-8919 Assembly rod, 14 dia 88 ^{27/64"} , 19 sections 18 8015-8920 Assembly rod, 14 dia 94 ¹³ /32", 20 sections 18 8015-8921 Assembly rod, 14 dia 94 ¹³ /32", 20 sections 18 8015-8921 Assembly rod, 14 dia 98 ^{55/64"} , 21 sections 18 8015-8922 Assembly rod, 14 dia 103 ^{17/64} , 22 sections 18 8015-8923 Assembly rod, 14 dia 107 ^{23/32"} , 23 sections 18 8015-8924 Assembly rod, 14 dia 117 ^{1/8"} , 24 sections 18 8015-8925 Assembly rod, 14 dia 116 ^{17/32"} , 25 sections 18 8015-8925 Assembly rod, 14 dia 116 ^{17/32"} , 25 sections 19 8259-5500 Blind square flange + gasket 20 8259-5501 Square flange with 2" tapped hole + gasket 21 9501-4155 Gasket 222 x 169.5 mm 22 8249-0011 2" plug 23 8259-1502 Flange with outlet piece + gasket 26 8555-5543 Flange with return piece + gasket	18 8015-8919 Assembly rod, 14 dia 88 ^{27/64} ", 19 sections 18 8015-8920 Assembly rod, 14 dia 94 ¹³ /32", 20 sections 18 8015-8920 Assembly rod, 14 dia 94 ¹³ /32", 20 sections 18 8015-8921 Assembly rod, 14 dia 98 ^{55/64} ", 21 sections 18 8015-8922 Assembly rod, 14 dia 103 ^{17/64} , 22 sections 18 8015-8923 Assembly rod, 14 dia 107 ^{23/32} ", 23 sections 18 8015-8924 Assembly rod, 14 dia 112 ^{1/8} ", 24 sections 18 8015-8925 Assembly rod, 14 dia 116 ^{17/32} ", 25 sections 18 8015-8925 Assembly rod, 14 dia 116 ^{17/32} ", 25 sections 18 8015-8925 Assembly rod, 14 dia 116 ^{17/32} ", 25 sections 19 8259-5500 Blind square flange + gasket 20 8259-5501 Square flange with 2" tapped hole + gasket 21 9501-4155 Gasket 222 x 169.5 mm 22 8249-0011 2" plug 23 8259-1502 Flange with outlet piece + gasket 26 8555-5543 Flange with return piece + gasket 28 8228-8905 Complete articulation of burner plate 29 <	18	8015-8917	Assembly rod, 14 dia 799/16", 17 sections
18 8015-8920 Assembly rod, 14 dia 9413/32", 20 sections 18 8015-8921 Assembly rod, 14 dia 98 ^{55/64} ", 21 sections 18 8015-8922 Assembly rod, 14 dia 103 ^{17/64} , 22 sections 18 8015-8923 Assembly rod, 14 dia 107 ^{23/32} ", 23 sections 18 8015-8923 Assembly rod, 14 dia 107 ^{23/32} ", 23 sections 18 8015-8924 Assembly rod, 14 dia 112 ^{1/8} ", 24 sections 18 8015-8925 Assembly rod, 14 dia 116 ^{17/32} ", 25 sections 18 8015-8925 Assembly rod, 14 dia 116 ^{17/32} ", 25 sections 19 8259-5500 Blind square flange + gasket 20 8259-5501 Square flange with 2" tapped hole + gasket 21 9501-4155 Gasket 222 x 169.5 mm 22 8249-0011 2" plug 23 8259-1502 Flange with outlet piece + gasket 26 8555-5543 Flange with return piece + gasket	18 8015-8920 Assembly rod, 14 dia 9413/32", 20 sections 18 8015-8921 Assembly rod, 14 dia 98 ^{55/64} ", 21 sections 18 8015-8922 Assembly rod, 14 dia 103 ^{17/64} , 22 sections 18 8015-8923 Assembly rod, 14 dia 107 ^{23/32} ", 23 sections 18 8015-8923 Assembly rod, 14 dia 107 ^{23/32} ", 23 sections 18 8015-8924 Assembly rod, 14 dia 112 ^{1/8} ", 24 sections 18 8015-8925 Assembly rod, 14 dia 116 ^{17/32} ", 25 sections 18 8015-8925 Assembly rod, 14 dia 116 ^{17/32} ", 25 sections 19 8259-5500 Blind square flange + gasket 20 8259-5501 Square flange with 2" tapped hole + gasket 21 9501-4155 Gasket 222 x 169.5 mm 22 8249-0011 2" plug 23 8259-1502 Flange with outlet piece + gasket 26 8555-5543 Flange with return piece + gasket 28 8228-8905 Complete articulation of burner plate 29 8259-0538 Plain burner door	18	8015-8918	Assembly rod, 14 dia 83 ^{31/32"} , 18 sections
18 8015-8920 Assembly rod, 14 dia 9413/32", 20 sections 18 8015-8921 Assembly rod, 14 dia 9855/64", 21 sections 18 8015-8922 Assembly rod, 14 dia 10317/64, 22 sections 18 8015-8923 Assembly rod, 14 dia 10723/32", 23 sections 18 8015-8924 Assembly rod, 14 dia 10723/32", 23 sections 18 8015-8924 Assembly rod, 14 dia 1121/8", 24 sections 18 8015-8925 Assembly rod, 14 dia 11617/32", 25 sections 18 8015-8925 Assembly rod, 14 dia 11617/32", 25 sections 19 8259-5500 Blind square flange + gasket 20 8259-5501 Square flange with 2" tapped hole + gasket 21 9501-4155 Gasket 222 x 169.5 mm 22 8249-0011 2" plug 23 8259-1502 Flange with outlet piece + gasket 26 8555-5543 Flange with return piece + gasket	18 8015-8920 Assembly rod, 14 dia 9413/32", 20 sections 18 8015-8921 Assembly rod, 14 dia 9855/64", 21 sections 18 8015-8922 Assembly rod, 14 dia 10317/64, 22 sections 18 8015-8923 Assembly rod, 14 dia 10723/32", 23 sections 18 8015-8923 Assembly rod, 14 dia 10723/32", 23 sections 18 8015-8924 Assembly rod, 14 dia 112 ^{1/8} ", 24 sections 18 8015-8925 Assembly rod, 14 dia 116 ^{17/32} ", 25 sections 18 8015-8925 Assembly rod, 14 dia 116 ^{17/32} ", 25 sections 19 8259-5500 Blind square flange + gasket 20 8259-5501 Square flange with 2" tapped hole + gasket 21 9501-4155 Gasket 222 x 169.5 mm 22 8249-0011 2" plug 23 8259-1502 Flange with outlet piece + gasket 26 8555-5543 Flange with return piece + gasket 28 8228-8905 Complete articulation of burner plate 29 8259-0538 Plain burner door	18	8015-8919	Assembly rod, 14 dia 88 ^{27/64"} , 19 sections
18 8015-8921 Assembly rod, 14 dia 98 ^{55/64"} , 21 sections 18 8015-8922 Assembly rod, 14 dia 103 ^{17/64} , 22 sections 18 8015-8923 Assembly rod, 14 dia 107 ^{23/32"} , 23 sections 18 8015-8924 Assembly rod, 14 dia 117 ^{1/8"} , 24 sections 18 8015-8925 Assembly rod, 14 dia 112 ^{1/8"} , 24 sections 18 8015-8925 Assembly rod, 14 dia 116 ^{17/32"} , 25 sections 19 8259-5500 Blind square flange + gasket 20 8259-5501 Square flange with 2" tapped hole + gasket 21 9501-4155 Gasket 222 x 169.5 mm 22 8249-0011 2" plug 23 8259-1502 Flange with outlet piece + gasket 26 8555-5543 Flange with return piece + gasket	18 8015-8921 Assembly rod, 14 dia 98 ^{55/64"} , 21 sections 18 8015-8922 Assembly rod, 14 dia 103 ^{17/64} , 22 sections 18 8015-8923 Assembly rod, 14 dia 107 ^{23/32"} , 23 sections 18 8015-8924 Assembly rod, 14 dia 117 ^{1/8"} , 24 sections 18 8015-8925 Assembly rod, 14 dia 112 ^{1/8"} , 24 sections 18 8015-8925 Assembly rod, 14 dia 116 ^{17/32"} , 25 sections 18 8015-8925 Assembly rod, 14 dia 116 ^{17/32"} , 25 sections 19 8259-5500 Blind square flange + gasket 20 8259-5501 Square flange with 2" tapped hole + gasket 21 9501-4155 Gasket 222 x 169.5 mm 22 8249-0011 2" plug 23 8259-1502 Flange with outlet piece + gasket 26 8555-5543 Flange with return piece + gasket 28 8228-8905 Complete articulation of burner plate 29 8259-0538 Plain burner door	18	8015-8920	
18 8015-8922 Assembly rod, 14 dia 103 ^{17/64} , 22 sections 18 8015-8923 Assembly rod, 14 dia 107 ^{23/32} ", 23 sections 18 8015-8924 Assembly rod, 14 dia 112 ^{1/8} ", 24 sections 18 8015-8925 Assembly rod, 14 dia 112 ^{1/8} ", 24 sections 18 8015-8925 Assembly rod, 14 dia 116 ^{17/32} ", 25 sections 19 8259-5500 Blind square flange + gasket 20 8259-5501 Square flange with 2" tapped hole + gasket 21 9501-4155 Gasket 222 x 169.5 mm 22 8249-0011 2" plug 23 8259-1502 Flange with outlet piece + gasket 26 8555-5543 Flange with return piece + gasket	18 8015-8922 Assembly rod, 14 dia 103 ^{17/64} , 22 sections 18 8015-8923 Assembly rod, 14 dia 107 ^{23/32} ", 23 sections 18 8015-8924 Assembly rod, 14 dia 117 ^{1/8} ", 24 sections 18 8015-8924 Assembly rod, 14 dia 112 ^{1/8} ", 24 sections 18 8015-8925 Assembly rod, 14 dia 116 ^{17/32} ", 25 sections 18 8015-8925 Assembly rod, 14 dia 116 ^{17/32} ", 25 sections 19 8259-5500 Blind square flange + gasket 20 8259-5501 Square flange with 2" tapped hole + gasket 21 9501-4155 Gasket 222 x 169.5 mm 22 8249-0011 2" plug 23 8259-1502 Flange with outlet piece + gasket 26 8555-5543 Flange with return piece + gasket 28 8228-8905 Complete articulation of burner plate 29 8259-0538 Plain burner door	18	8015-8921	
18 8015-8923 Assembly rod, 14 dia 107 ^{23/32"} , 23 sections 18 8015-8924 Assembly rod, 14 dia 112 ^{1/8} ", 24 sections 18 8015-8925 Assembly rod, 14 dia 116 ^{17/32} ", 25 sections 19 8259-5500 Blind square flange + gasket 20 8259-5501 Square flange with 2" tapped hole + gasket 21 9501-4155 Gasket 222 x 169.5 mm 22 8249-0011 2" plug 23 8259-1502 Flange with outlet piece + gasket 26 8555-5543 Flange with return piece + gasket	18 8015-8923 Assembly rod, 14 dia 107 ^{23/32"} , 23 sections 18 8015-8924 Assembly rod, 14 dia 112 ^{1/8"} , 24 sections 18 8015-8925 Assembly rod, 14 dia 112 ^{1/8"} , 24 sections 18 8015-8925 Assembly rod, 14 dia 116 ^{17/32"} , 25 sections 19 8259-5500 Blind square flange + gasket 20 8259-5501 Square flange with 2" tapped hole + gasket 21 9501-4155 Gasket 222 x 169.5 mm 22 8249-0011 2" plug 23 8259-1502 Flange with outlet piece + gasket 26 8555-5543 Flange with return piece + gasket 28 8228-8905 Complete articulation of burner plate 29 8259-0538 Plain burner door	18	8015-8922	
18 8015-8924 Assembly rod, 14 dia 112 ^{1/8"} , 24 sections 18 8015-8925 Assembly rod, 14 dia 116 ^{17/32"} , 25 sections 19 8259-5500 Blind square flange + gasket 20 8259-5501 Square flange with 2" tapped hole + gasket 21 9501-4155 Gasket 222 x 169.5 mm 22 8249-0011 2" plug 23 8259-1502 Flange with outlet piece + gasket 26 8555-5543 Flange with return piece + gasket	18 8015-8924 Assembly rod, 14 dia 112 ^{1/8"} , 24 sections 18 8015-8925 Assembly rod, 14 dia 116 ^{17/32"} , 25 sections 19 8259-5500 Blind square flange + gasket 20 8259-5501 Square flange with 2" tapped hole + gasket 21 9501-4155 Gasket 222 x 169.5 mm 22 8249-0011 2" plug 23 8259-1502 Flange with outlet piece + gasket 26 8555-5543 Flange with return piece + gasket 28 8228-8905 Complete articulation of burner plate 29 8259-0538 Plain burner door			
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26 8555-5543 Flange with return piece + gasket	268555-5543Flange with return piece + gasket288228-8905Complete articulation of burner plate298259-0538Plain burner door			
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28 8228-8905 Complete articulation of burner plate	29 8259-0538 Plain burner door			
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	30 9755-0235 Burner door guard			· · · · · · · · · · · · · · · · · · ·

Ref.	Code no.	DESCRIPTION
31	9755-0236	Burner door insulation
32	8008-8915	Burner plate hinge
33	8555-8592	Bag of screws for burner door
34	8555-5528	Flue gas outlet + braid
35	8208-0010	Cast-iron cleaning cover
36	8504-6115	15 Dia. Thermocord gasket
37	8259-0540	Connection plate Dia. 16"
37	8259-0546	Connection plate Dia. 18"
37	8259-0547	Connection plate Dia. 20"
38	9508-6041	19/32 x 23/64 adhesive gasket
39	8555-5514	Left-hand cleaning door + braid
40	8555-5541	Right-hand cleaning door + braid
41	8555-5510	N1 cleaning cover + braid
42	8555-5511	N2 cleaning cover + braid
43	8555-5512	N3 cleaning cover + braid
44	8555-5513	N4 cleaning cover + braid
45	8555-8593	Bag of screws for cleaning door
46	8508-6032	Silicone-coated fiberglass seal
47	8555-5515	Complete lock
48	8259-0010	Upper baffle
49	8259-5503	Water Balancing tube + gasket for 15 and 16 sec- tions
49	8259-5504	Water Balancing tube + gasket for 17 to 19 sections
49	8259-5505	Water Balancing tube + gasket for 20 to 22 sections
49	8259-5506	Water Balancing tube + gasket for 23 and 24 sec- tions
49	8259-5507	Water Balancing tube + gasket for 25 sections
49	8259-7255	Water Balancing tube + gasket for 26-32 sections
52	9434-5102	Retouching spray paint - anthracite grey
52	9434-5104	Retouching spray paint - ivory
53	9501-4156	Gasket 4"

Cleaning tools

60	9696-8026	Brush for plate
61	8013-8704	Metal brush + $70^{55/64''}$ long rod for 15 sections
62	8015-8723	Metal brush + $5^{13/16''}$ long rod + extension for 16 to 22 sections
62	8015-8716	Metal brush + $70^{55/64''}$ long rod + extension for 23 to 25 sections
63	9750-5103	47 ^{1/4"} long scraper
63	9750-5106	59 ^{1/16"} long scraper
63	9750-5108	70 ^{55/64"} long scraper

GT 530A

Ref.	Code no.	DESCRIPTION	
INSU	INSULATION		
		Insulation for body	
70	8555-5521	Complete insulation for body, 15 sections	
70	8555-5522	Complete insulation for body, 16 and 17 sections	
70	8555-5523	Complete insulation for body, 18 and 19 sections	
70	8555-5524	Complete insulation for body, 20 sections	
70	8555-5525	Complete insulation for body, 21 and 22 sections	
70	8555-5526	Complete insulation for body, 23 and 24 sections	
70	8555-5527	Complete insulation for body, 25 sections	

Insulation for cleaning covers

71	8555-5534	Complete insulation for cleaning covers, 15 sections
71	8555-5535	Complete insulation for cleaning covers, 16 and 17 sections
71	8555-5536	Complete insulation for cleaning covers, 18 and 19 sections
71	8555-5537	Complete insulation for cleaning covers, 20 sections
71	8555-5538	Complete insulation for cleaning covers, 21 and 22 sections
71	8555-5539	Complete insulation for cleaning covers, 23 and 24 sections
71	8555-5540	Complete insulation for cleaning covers, 25 sections

BOILER CASING

80	8555-8008	48 ^{15/64"} long rail
80	8555-8009	53 ^{3/4"} long rail
80	8555-8010	58 ^{5/64"} long rail
80	8555-8011	61 ^{39/64"} long rail
80	8555-8012	6561/64" long rail
80	8555-8013	69 ^{31/64"} long rail
80	8555-8014	7313/16" long rail
80	8555-8015	79 ^{23/32"} long rail
80	8555-8016	8515/64" long rail
80	8555-8017	899/16" long rail
80	8555-8018	93 ^{7/64"} long rail
81	8555-8021	491/16" long supplementary rail
82	8555-8035	4939/64" long left-hand wiring duct
82	8555-8036	55 $1/8''$ long left-hand wiring duct
82	8555-8037	5929/64" long left-hand wiring duct
82	8555-8038	63" long left-hand wiring duct
82	8555-8039	67 ^{21/64} " long left-hand wiring duct
82	8555-8040	70 ^{55/64} " long left-hand cable channel
82	8555-8041	75 ^{13/64"} long left-hand cable channel
82	8555-8042	817/64" long left-hand cable channel
82	8555-8043	86 ^{5/8"} long left-hand cable channel
82	8555-8044	$_{90}15/16''$ long left-hand cable channel
82	8555-8045	9431/64" long left-hand cable channel
83	8555-8048	49 ^{39/64"} long right-hand wiring duct
83	8555-8049	55 $1/8''$ long right-hand wiring duct
83	8555-8050	59 ^{29/64"} long right-hand wiring duct
83	8555-8051	63" long right-hand wiring duct

Ref.	Code no.	DESCRIPTION
83	8555-8052	$_{67}21/64''$ long right-hand wiring duct
83	8555-8053	70 ^{55/64"} long right-hand wiring duct
83	8555-8054	7513/64" long right-hand wiring duct
83	8555-8055	817/64" long right-hand wiring duct
83	8555-8056	86 ^{5/8"} long right-hand wiring duct
83	8555-8057	9015/16" long right-hand wiring duct
83	8555-8058	94 ^{31/64"} long right-hand wiring duct
84	8555-8080	475/64" long additional wiring duct
85	8555-8066	4417/32" long central upper top cover
85	8555-8067	50 ^{1/32"} long central upper top cover
85	8555-8068	543/8" long central upper top cover
85	8555-8069	5729/32" long central upper top cover
85	8555-8070	$62^{1/4''}$ long central upper top cover
85	8555-8071	65 ^{25/32"} long central upper top cover
85	8555-8072	707/64" long central upper top cover
85	8555-8073	761/32" long central upper top cover
85	8555-8074	8117/32" long central upper top cover
85	8555-8075	857/8" long central upper top cover
85	8555-8076	8913/32" long central upper top cover
86	8555-8079	47 ^{5/64"} long additional central top cover
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		Common parts
87	8259-8014	Lower front crosspiece
88	8555-8515	Fastening bracket for front side panel
89	8259-8818	Complete lower front side panel
90	8555-8516	Complete upper front panel
91	8555-8517	Complete lower front panel
92	8555-8518	Upper rear panel
93	8259-8021	Lower left-hand rear panel
94	8259-8022	Lower right-hand rear panel
95	8259-0518	Panel for burner door
96	8555-8519	Control panel trim
97	8555-8520	Rear cover for standard control panel
98	8555-8521	Control panel bracket
99	8259-8055	Lower rear crosspiece
100	8555-8522	Upper crosspiece
101	8555-8526	Intermediate upper crosspiece
102	8555-8082	Joining central plate
103	8555-8523	Lower tab of rail
104	8555-8022	Upper bracket
105	8555-0526	Upper front crosspiece
106	9532-0780	Ring
107	9775-8859	Rapid nut
108	8555-8525	Fasteners for common parts

		Front side casing
110	8555-8503	37" long front side panel
110	8555-8504	$41^{1/3''}$ long front side panel
111	8555-8514	Fasteners for front side panel

112	8555-8508	37" long right-hand upper front plate for cleaning
112	8555-8509	41 $^{''1/3}$ long right-hand upper front plate for cleaning
113	8555-8511	37" long left-hand upper front plate for cleaning
113	8555-8512	$41^{1/3''}$ long left-hand upper front plate for cleaning

		Rear side casing
114	8555-8500	15 ^{3/4"} rear side panel
114	8555-8501	23 ^{5/8"} long front side panel
115	8555-8513	Fasteners for rear side panel
116	8555-8505	15 ^{3/4"} long upper rear plate
116	8555-8506	$_{23}5/8''$ long upper rear plate for cleaning
		CONTROL PANEL (FA 122)
140	8555-7377	Complete control panel
141	8219-0508	Base for control panel
142	8219-0502	Top cover for control panel
143	9755-0143	Side cover
144	8555-8905	Front cover
145	9421-0718	Control strip
146	9536-5613	Separator for well
147	9758-1286	Spring for well
148	9536-5155	Thermometer
149	9536-5605	Safety thermometer
150	9536-5604	Thermostat
151	8219-5508	Setting button with pins
152	8555-4910	Electrical circuit
153	8555-5500	Fasteners for control panel