



All the heat you need!

THERMOBILE[®]

PRODUCT CATALOGUE | 2014 - 2015



Thermobile “All the heat you need”, as the slogan says, offers a suitable solution for any heat request.








For more than 50 years Thermobile Industries BV has specialized in the development, production and international sales and marketing of space heaters. The head office is situated in Breda, The Netherlands.

Thermobile distinguish themselves by the quality, reliability and durability of its products. As our customer we try to offer you additional value. With all heat requests we offer you our support.

The Thermobile products are produced with great care and they are extensively tested. A permanent quality control system, according to ISO 9001:2008, is part of the production process.

Naturally, all Thermobile heaters comply with the most stringent European standards and all models carry the mandatory CE marking and are also in accordance with Technical Rules (formerly GOST) certification.

Legend fuel type

















	diesel/heating oil
	kerosene
	propane
	natural gas
	universal oil
	bio oil
	electricity



Member of



the Honing Beheer Group of Companies

	TA/TAS Direct oil fired	 	4
	ITA/ITAS Oil fired with flue connection	 	6
	IMA Oil fired with flue connection and separate external burner	   	8
	ISA Oil fired with flue connection and separate external burner	   	10
	IMAC Oil fired with flue connection (containerized)	   	12
	ITLS 65 Indirect oil fired heater		14
	ITLS 85 Indirect gas fired heater	 	15
	GA Direct propane gas fired		16
	GA EV Direct propane fired, vertical		18
	MS Modulating control units propane gas		19
	AGA E Direct propane/natural gas fired	 	20
	TAS 800 E Direct oil fired with large air throw	 	22
	AT Cabinet universal oil fired with flue connection and built-in fuel tank	 	24
	BIOENERGY Bio oil with flue connection and built-in fuel tank		26
	PRODRY Dehumidifiers		27
	CH/VTB/PROHEAT 18 Electric Heaters		28
	BX/TBD 18 Electric Heaters		30
	VAL Infra-red radiant oil fired	 	32
	ENERGYTENDER		34
	MULTITANKS		35
	ACCESSORIES		36

TA/TAS Direct oil fired

FUEL TYPE



TA 80

TA 40

TA 16/22/30



Air wheels (option).



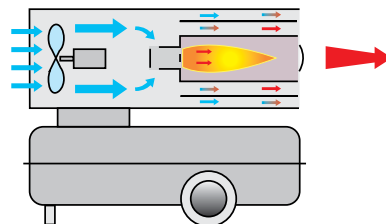
TA 40 (TH) and TA 80 (TH) are standard equipped with a level meter.



Detail tank level meter.

WORKING PRINCIPLE

- Direct heat with 100% efficiency.
- Fixed outlet temperature circa 450 °C.
- Fast temperature rise.
- High pressure pump for diesel or paraffin.
- 1-Way pipe system prevents fuel disturbance.
- TA-models function with photocell flame control.



FEATURES

- Durable phosphated body parts with powder coating.
- Very mobile, economic in use, reliable.
- Safe cool outside housing.
- Tank for 16 hours burning duration.
- Exchangeable components.
- High pressure pump with 1-way pipe system. Conversion kit to 2-way pipe system available for connection to bulk tank (max. length 50 m/height 3 m, depends on diameter of pipe).
- Room ventilation is required.
- TA models with burner relay, photocell flame control and thermostat connection.
- Air wheels for TA 16/22/30/40/80 available as accessory.
- TA 40 (TH) and TA 80 (TH) models are standard equipped with a level meter.
- TA 40 TH and TH 80 TH are standard equipped with tank heating.



APPLICATIONS

Agriculture

- Heating of sheds and workshops.
- Drying of agricultural products.

Horticulture

- Heating of greenhouses and polytunnels. (N.B: Only use paraffin and control CO₂ and CO emission).

Industry

- Heating of factories and transit sheds, defrosting of pipework and installations.

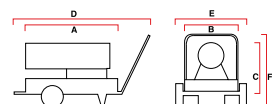
Motor trade

- Workshop heating.

TECHNICAL SPECIFICATIONS | DIMENSIONS AND WEIGHTS

1 kW = 860 kcal/h 1 kW = 3,413 Btu/h 1 kW = 3.6 MJ/h 1 kg = 1.2 l/h

MODEL	Performance Specifications							ITEM NUMBER			
	Heat output (Btu/hr)	Heat output (kW)	Fuel consumption oil max. (l/hr)	Heated air flow (m ³ /hr)	Tank capacity (l)	Power consumption 230 V (AMPS)	Thermostat connection				
TA 16	63,000	18.6	1.8	600	40	1.0	Yes	40.237.000			
TA 22	85,000	25.0	2.5	600	40	1.0	Yes	40.223.000			
TA 30	102,000	30.0	2.7	600	40	1.0	Yes	40.230.000			
TA 40	157,000	46.0	4.5	1,200	80	2.1	Yes	40.404.100			
TA 40 TH*	157,000	46.0	4.5	1,200	80	2.1	Yes	40.404.600			
TA 80	317,000	93.0	9.0	2,150	160	3.6	Yes	40.804.100			
TA 80 TH*	317,000	93.0	9.0	2,150	160	3.6	Yes	40.804.600			
TAS 40/80	(without tank) available on demand										
	* with tank heating										
	Dimensions heater only (cm)							Dimensions including packing (cm)			
	A	B	C	D	E	F	KG	L	B	H	KG
TA 16	105	-	-	119	48	60	31	110	50	60	34
TA 22 / TA 30	105	-	-	119	48	60	31	110	50	60	34
TA 40 / TA 40 TH	122	-	-	128	54	80	40	108	54	81	62
TA 80 / TA 80 TH	140	-	-	173	63	90	69	129	67	94	85



FUEL TYPE



ITA 75 ROBUST

ITA 45 ROBUST



ITA 75

ITA 45

ITA 30/35



Air wheels (option).



Heat exchanger ITA 35.



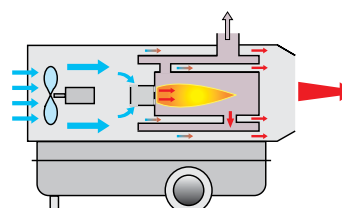
Burner chamber/heat exchanger (ITA 45/75) Thermobile achieves optimum coverage with the unique combination of stainless steel and high-temperature proof steel for the burner chamber and heat exchanger.



ITA 45/75 Robust lifting bracket optional.

WORKING PRINCIPLE

- 100% Clean and dry heat.
- Outlet temperature ΔT approx. 50 °C (At 0 Pa back pressure.).
- Combustion chamber heat resistant up to 850 °C.
- 1-Way pipe system prevents fuel disturbance.
- High efficiency heat exchanger (91%).



FEATURES

- Durable phosphated body panels with powder coating.
- Clean heat due to gas flue connection, heat distribution is possible by means of hoses and highly mobile with fuel tank.
- High pressure pump for diesel or paraffin.
- Tank for 16 hours burning duration, 20-50% more than competitors.
- With burner relay, photocell flame control, overheat protection and thermostat connection.
- High pressure pump with 1-way pipe system. Conversion kit to 2-way pipe system available for connection to bulk tank (max. length 50 m/height 3 m, depends on diameter of pipe).
- Room ventilation is required.
- ITA 30/35 TH, ITA 45 TH and the ITA 75 TH are standard equipped with tank heating.
- ITA 35 has compared to the ITA 30 a higher air output and an outlet temperature which allows a standard hose with a temperature resistance of -30/+100 °C to be connected.
- ITA 45/75 Chimney clamp for easy transport (optional). See photo page 41.
- ITA 45/75 Robust is robust with ball bearing large wheels, forklift slots, tank level meter and bumper around, lifting bracket set optionally available (see page 38).



APPLICATIONS

Building industry

- Heating and drying of building locations and all-weather projects.
- Drying of buildings after flooding.

Industry

- Heating of transit sheds, workshops and warehouses.

Marquees heating

- Especially suited for heating marquees, showrooms and sports halls.

Agriculture

- Heating stables, sheds and workshops.
- Drying of agricultural products.
- Storing flower bulbs without risk of harmful ethylene emission.

Horticulture

- Heating of greenhouses and polytunnels without risk of harmful CO₂ and CO emission.
- Heating sorting areas.

Motor trade

- Heating workshops, body preparation areas and spray booths.

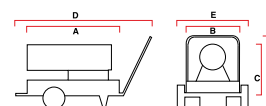
TECHNICAL SPECIFICATIONS | DIMENSIONS AND WEIGHTS

1 kW = 860 kcal/h 1 kW = 3,413 Btu/h 1 kW = 3.6 MJ/h 1 kg = 1.2 l/h

MODEL	Heat output (Btu/hr)	Heat output (kW)	Fuel consumption oil max. (l/hr)	Heated air flow (m ³ /hr)	Max. ventilator back pressure (Pa)	Tank capacity (l)	Power consumption 230 V (AMPS)	Outlet cone Ø (mm)	Flue connection Ø (mm)	Thermostat connection	ITEM NUMBER
ITA 30	85,000	24.8	2.4	1,100	100	40	1.2	300	150	Yes	41.300.000
ITA 30 TH*	85,000	24.8	2.4	1,100	100	40	1.2	300	150	Yes	41.300.600
ITA 35	85,000	24.8	2.4	1,500	150	40	1.3	300	150	Yes	41.350.000
ITA 35 TH*	85,000	24.8	2.4	1,500	150	40	1.3	300	150	Yes	41.350.600
ITA 45	154,000	45.1	4.5	3,000	200	80	3.3	400	150	Yes	41.404.000
ITA 45 Robust	154,000	45.1	4.5	3,000	200	80	3.3	400	150	Yes	41.451.000
ITA 45 TH*	154,000	45.1	4.5	3,000	200	80	3.3	400	150	Yes	41.404.600
ITA 75	239,000	70.0	7.0	3,800	200	120	4.0	400	180	Yes	41.750.000
ITA 75 Robust	239,000	70.0	7.0	3,800	200	120	4.0	400	180	Yes	41.751.200
ITA 75 TH*	239,000	70.0	7.0	3,800	200	120	4.0	400	180	Yes	41.750.600
ITAS 45/75	(without tank) available on demand										

* with tank heating

	Dimensions heater only (cm)						KG	Dimensions including packing (cm)			
	A	B	C	D	E	F		L	B	H	KG
ITA 30/35 / ITA 35 TH	120	-	-	125	49	69	58	129	52	85	76
ITA 45 / ITA 45 TH	150	-	-	163	62	90	105	173	68	105	130
ITA 45 Robust	148	-	-	168	69	94	120	186	69	121	145
ITA 75 / ITA 75 TH	170	-	-	201	65	98	131	186	69	121	158
ITA 75 Robust	162	-	-	192	69	117	143	200	74	142	175



FUEL TYPE



IMA 150 AXIAL

IMA 111 AXIAL

IMA 61 AXIAL

IMA 200 RADIAL

IMA 150 RADIAL

IMA 111 RADIAL

IMA 61 RADIAL



Tigerloop standard.



"Easy connect" recirculation flange.



Transport frame.



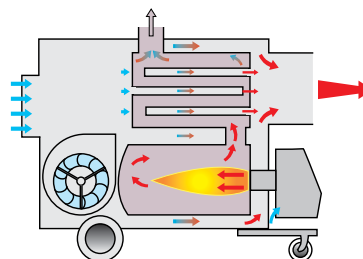
Forklift slots IMA 150.



VFD Fan Speed Controller IMA 111/150/200 Radial HP (factory optional).

WORKING PRINCIPLE

- 100% Clean and dry heat.
- Outlet temperature ΔT 40-60 °C depending on model.*
- Large heat throw.
- Lower tray for oil containment during servicing.
- High efficiency heat exchanger (92%).
- Combustion chamber heat resistant up to 850 °C.
- HP Radial fan for powerful heat distribution.



FEATURES

- Transport frame available on request.
- With overheating protection and temperature limitation of warm air.
- The fan stops at temperatures below 40 °C and does not ventilate cold air when starting up. (Constant ventilation is possible with an extra switch position).
- Fully automatic, controllable with thermostat connection.
- Tigerloop standard, fuel filter with condensate separator.
- Intercal industrial burner with flowcontrol.
- As alternative available with a Riello oil- or gas burner.
- Can be used in combination with Multitanks or other fuel tanks.
- Protection bars all around, big wheels.
- High capacity, easily transportable, compact.
- Burner with rain cover and lower tray for oil containment during servicing.
- Room ventilation is required, fresh air connection available.
- IMA 61/111 can pass through a door width of 80 cm.
- IMA 111/150/200 models are equipped with forklift slots.
- Available in 3 fan types:
 - Axial: Up to 130 Pa pressure build-up (to be used without or with single hoses with few curves).
 - Radial: 230 V High pressure fan 300 Pa.
 - Radial HP: 400 V High pressure fan for extra high pressure (500 Pa) and air flow. Radial fans are essential for heat distribution with hoses.



APPLICATIONS

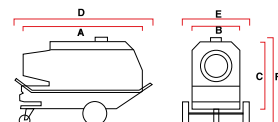
- Building industry**
 - Heating and drying of building sites and all-weather projects.
 - Drying of buildings after flooding.
- Industry**
 - Heating of transit sheds and workshops.
- Marquees heating**
 - IMA models are especially suited for heating marquees, showrooms and sports halls.
- Agriculture**
 - Heating of sheds and storage areas.
 - Drying of agricultural products.
 - Storing bulbs without the risk of harmful ethylene emission.
- Horticulture**
 - Heating of greenhouses and polytunnels without the risk of harmful CO₂ and CO emission.

TECHNICAL SPECIFICATIONS | DIMENSIONS AND WEIGHTS

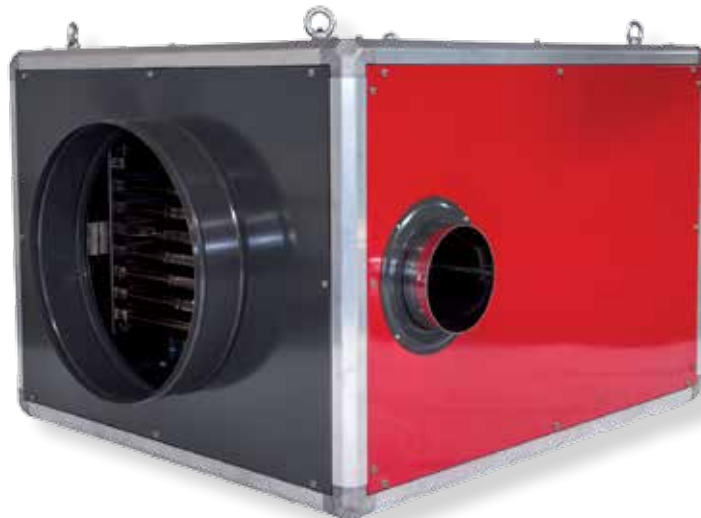
1 kW = 860 kcal/h 1 kW = 3,413 Btu/h 1 kW = 3.6 MJ/h 1 kg = 1.2 l/h

MODEL	Heat output (Btu/hr)	Heat output (kW)	Fuel consumption oil max. (l/hr)	Heated air flow (m ³ /hr)	Max. ventilator back pressure (Pa)	Power consumption	Outlet cone Ø (mm)	Flue connection Ø (mm)	Thermostat connection	ITEM NUMBER
IMA 61 AX	222,000	65	6.5	4000	130	3.3/230 V	400	180	Yes	41.722.800
IMA 61 R	222,000	65	6.5	4000	250	6.5/230 V	400	180	Yes	41.722.300
IMA 111 AX	375,000	110	10.9	5800	130	4.4/230 V	500	200	Yes	41.724.800
IMA 111 R	375,000	110	10.9	8000	300	9.2/230 V	500	200	Yes	41.724.207
IMA 111 RHP	375,000	110	10.9	10000	500	7.5/400 V	500	200	Yes	41.724.210
IMA 150 AX	512,000	150	14.8	7400	100	5.7/230 V	500	200	Yes	41.726.800
IMA 150 R	512,000	150	14.8	9000	300	15/230 V	500	200	Yes	41.726.650
IMA 150 RHP	512,000	150	14.8	11000	500	9/400 V	500	200	Yes	41.726.000
IMA 200 R	682,000	200	19.4	10000	300	15/230 V	600	200	Yes	41.728.650
IMA 200 RHP	682,000	200	19.4	13000	500	10/400 V	600	200	Yes	41.728.010

MODEL	Dimensions heater only (cm)							Dimensions including packing (cm)			
	A	B	C	D	E	F	KG	L	B	H	KG
IMA 61 AX	-	-	-	162	71	128	205	203	75	145	230
IMA 61 R	-	-	-	199	71	128	230	203	75	145	250
IMA 111 AX	-	-	-	179	78	134	278	180	80	145	340
IMA 111 R	-	-	-	223	78	134	330	240	100	172	430
IMA 111 RHP	-	-	-	223	78	134	340	240	100	172	440
IMA 150 AX	-	-	-	200	84	151	332	205	95	172	430
IMA 150 R	-	-	-	246	84	151	385	265	95	172	580
IMA 150 RHP	-	-	-	246	84	151	385	265	95	172	580
IMA 200 R	-	-	-	271	91	152	425	300	104	172	625
IMA 200 RHP	-	-	-	271	91	152	425	300	104	172	625



FUEL TYPE



ISA 65



Chimney connection ISA 65.



Standard equipped with suspension hooks.



Switch box ISA 65.



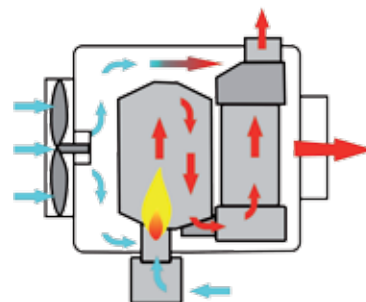
ISA 65 burner and switchbox with optional fan speed control.

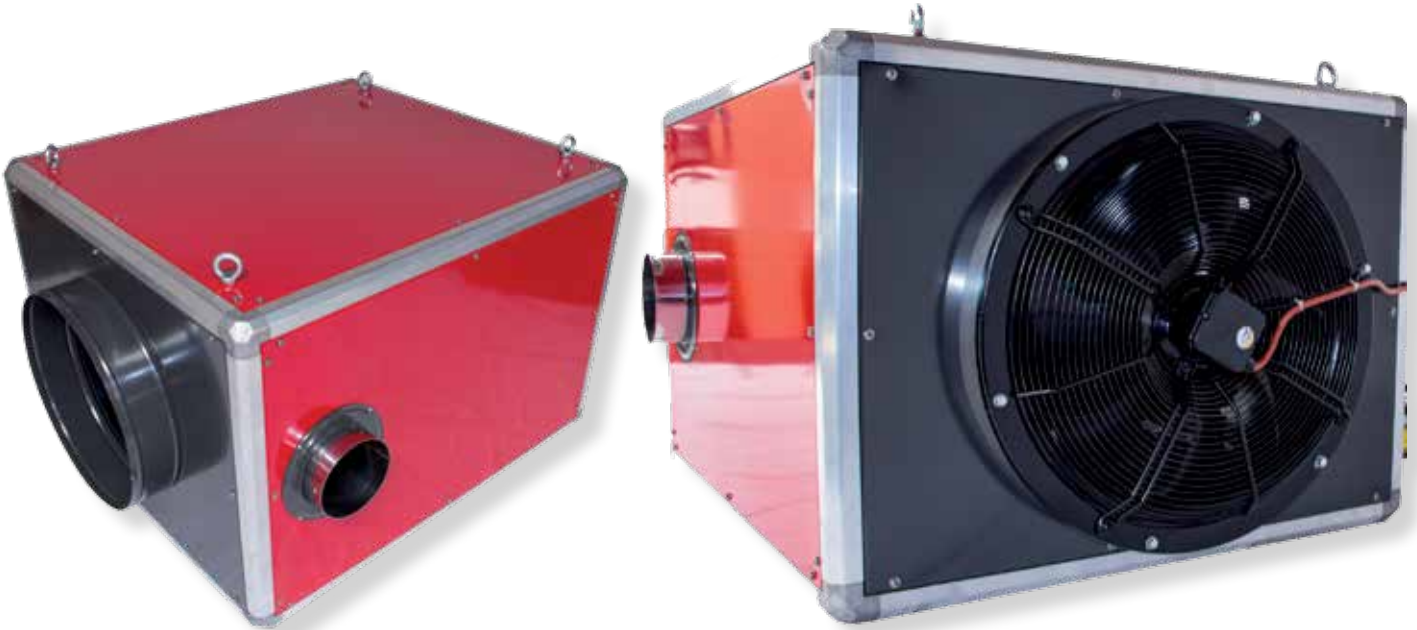
WORKING PRINCIPLE

- 100% Clean and dry heat.
- Outlet temperature ΔT 35 °C.*
- Large air throw.
- High efficiency heat exchanger (92%).
- Combustion chamber heat resistant up to 850 °C.

FEATURES

- With overheating protection and temperature limitation of warm air.
- The fan stops at temperatures below 40 °C and does not ventilate cold air when starting up.
- Fully automatic, controllable with thermostat connection.
- Tigerloop standard, fuel filter with condensate separator.
- Can be used in combination with Multitanks or other fuel tanks.
- Intercal industrial burner with flowcontrol.
- As alternative available with a Riello oil- or gas burner.
- Room ventilation is required, fresh air connection available.
- Fan speed control is optionally available.





APPLICATIONS

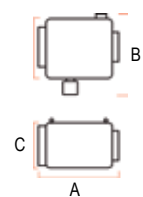
- Industry** • Heating of transit sheds and workshops.
- Marquees heating** • Heating of marquees, showrooms and sports halls.
- Agriculture** • Heating of sheds and storage areas.
- Horticulture** • Heating of greenhouses and polytunnels without the risk of harmful CO₂ and CO emission.

TECHNICAL SPECIFICATIONS | DIMENSIONS AND WEIGHTS

1 kW = 860 kcal/h 1 kW = 3,413 Btu/h 1 kW = 3.6 MJ/h 1 kg = 1.2 l/h

MODEL	Heat output (Btu/hr)	Capaciteit (kW)	Fuel consumption oil max. (l/hr)	Heated air flow (m ³ /hr)	Max. ventilator back pressure (Pa)	Power consumption (AMPS)	Outlet cone Ø (mm)	Flue connection Ø (mm)	Thermostat connection	ITEM NUMBER
ISA 65 AX	222,000	65	6.3	6	200	4/230 V	500	180	Yes	41.526.100

MODEL	Dimensions heater only (cm)						KG	Dimensions including packing (cm)			
	A	B	C	D	E	F		L	B	H	KG
ISA 65 AX	140	134	81	-	-	-	195	154	148	99	285





IMAC 4000 E

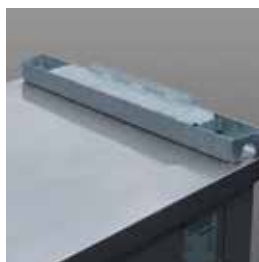
IMAC 2000 S / 2000 S 2T / 2200 S 2T



Full humidity proof switch box with central control panel, pilot lights and digital temperature regulation.



Intercal industrial burner with flow control and lower tray for oil containment.



Stackable construction with crane hooks.



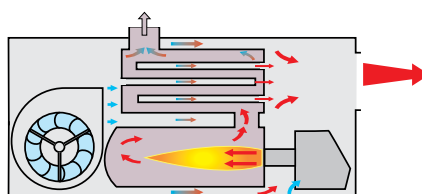
High pressure radial fan for long distance heat throw.



Dual thermostat connection and switch box of IMAC 2000 S 2T and 2200 S 2T.

WORKING PRINCIPLE

- 100% Clean and dry heat.
- Outlet temperature ΔT 47 °C.*
- Large heat throw.
- Combustion chamber heat resistant up to 850 °C.
- Lower tray for oil containment during servicing.
- High efficiency heat exchanger (92%).
- High Pressure fan for powerful heat distribution.



FEATURES

- Body work in stainless steel.
- Standard with stainless steel frame on box girders with forklift slots.
- Stackable construction with crane hooks.
- Weather resistant and lockable casing.
- High capacity, easily and safely transportable, central control.
- Lockable door panels for control box and burner area with feed through glands for cable and fuel hoses.
- Intercal industrial burner with flow control, as alternative available with a Riello oil- or gas burner.
- Completely automatic burner control with thermostat connection.
- With overheat protection and temperature limitation of warm air.
- Fan and thermal security resettable from control box.
- The IMAC 2000 S, IMAC 2000 S 2T and the IMAC 2200 S 2T are standard equipped with a 1x600 mm outlet panel. Optional are 4x300 mm, 6x300 mm and 2x500 mm available.
- A recirculation flange for the IMAC 2000 S is available as an accessory.
- The IMAC 4000 E, the IMAC 2000 S 2T and the IMAC 2200 S 2T are equipped with a 2 stage burner and a 2 speed fan. The fan of the IMAC 4000 E, IMAC 2000 S 2T and the IMAC 2200 S 2T are controlled by a frequency controller that also functions as a soft starter.
- IMAC 4000 E available with distribution heads 3x500 mm, 2x600 mm or 1x800 mm.



IMAC 2000 E with gas burner.

IMAC 2000 S 2T AND 2200 S 2T

The IMAC 2000 S 2T and 2200 S 2T are an optional version of the IMAC 2000 S. The IMAC 2200 S 2T has a capacity of 220 kW, a 2 stage burner, two fan speeds, soft start using the built-in frequency controller and a dual thermostat connection. The same applies to the IMAC 2000 S 2T with a capacity of 200 kW. By using two thermostats that are set with a slight difference the heater always automatically operates the burner with the most favourable burner stage. Normally it will burn to the lowest level controlled by the highest set thermostat. If the capacity is not sufficient enough the temperature drops to the lowest setting of the other thermostat and the heater will turn on to high stage. The advantage is that the heater is quieter and more efficient.

APPLICATIONS

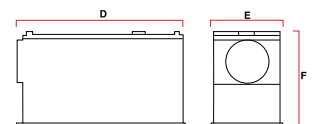
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 - Drying of buildings after flooding.
- Industry** • Heating of transit sheds, workshops and warehouses.
- Marquees heating** • Especially suited for heating marquees, showrooms and sports halls.

TECHNICAL SPECIFICATIONS | DIMENSIONS AND WEIGHTS

1 kW = 860 kcal/h 1 kW = 3,413 Btu/h 1 kW = 3.6 MJ/h 1 kg = 1.2 l/h

MODEL	Heat output (Btu/hr)		Heat output (kW)		Fuel consumption oil max. (l/hr)	Heated air flow (m ³ /hr)	Max. ventilator back pressure (Pa)	Power consumption 400 V (AMP/PS)	Outlet cone Ø (mm)	Flue connection Ø (mm)	Thermostat connection	ITEM NUMBER
	1	2	1	2								
IMAC 2000 S	683,000	200	20	12,000	600	7.5	1x600	200	Yes	41.729.600		
IMAC 2000 S 2T	683,000	200	20	8,500/12,000	320/600	3-6.5	1x600	200	2	41.729.674		
IMAC 2200 S 2T	751,000	220	22	9,000/12,000	375/500	3.6-6.7	1x600	200	2	41.729.673		
IMAC 4000 E	891,000/1,307,000	261/383	26/38	18,000/24,000	400/1,000/700	9-20-20.3	3x500	300	Yes	41.740.500		
IMAC 4000 E	891,000/1,307,000	261/383	26/38	18,000/24,000	400/1,000/700	9-20-20.3	2x600	300	Yes	41.740.600		
IMAC 4000 E	891,000/1,307,000	261/383	26/38	18,000/24,000	400/1,000/700	9-20-20.3	1x800	300	Yes	41.740.800		

MODEL	Dimensions heater only (cm)							Dimensions including packing (cm)			
	A	B	C	D	E	F	KG	L	B	H	KG
IMAC 2000 S	-	-	-	231	80	135	545	240	80	137	545
IMAC 2000 S 2T	-	-	-	231	80	135	550	240	80	137	550
IMAC 2200 S 2T	-	-	-	231	80	135	550	240	80	137	550
IMAC 4000 E	-	-	-	385	120	201	1,300	385	120	201	1,300



ITLS 65 | Indirect oil fired heater

FUEL TYPE



ITLS 65

This heater is specifically designed for use in poultry houses. The products of combustion are discharged via a flue system and fresh outside air is supplied to the burner. Because there is no moisture blown into the air, this results in drier manure and less ammonia. Due to continuous fan operation (adjustable, but at least 20% with no heat) and taking in warm air from the roof, an optimal heat distribution is obtained. The ITLS 65 is therefore suitable to contribute to a reduction of CO₂ and ammonia concentration in the air. Also, by reducing the required ventilation, it can save up to 25% energy.

WORKING PRINCIPLE

- 100% Clean and dry heat.
- 92% efficiency.
- Fresh air intake for the burner.
- Continuous ventilation of at least 20%.

FEATURES

- Stainless steel casing.
- Optimal air flow with adjustable output louvres.
- Heat resistant combustion chamber.
- Closed combustion system.
- Intercal industrial burner. Alternative Riello gas or oil burner.
- Flexible flue material.
- No CO₂ in the house.
- Up to 25% energy saving because of less ventilation being required.
- Less than 1 °C vertical temperature difference.
- Low noise level.
- Switch box and main fan with class IP65 protection.
- Easy to service (with maintenance door at the bottom).
- CE approved.

APPLICATIONS

- Agriculture**
- Poultry Houses.

TECHNICAL SPECIFICATIONS | DIMENSIONS AND WEIGHTS

1 kW = 860 kcal/h 1 kW = 3,413 Btu/h 1 kW = 3.6 MJ/h 1 kg = 1.2 l/h

MODEL	Heat output (Btu/hr)	Heat output (kW/hr)	Fuel consumption (l/h)	Heated air flow (m ³)	Power consumption 230 V (AMPS)	Flue connection Ø (mm)	Thermostat connection	ITEM NUMBER
ITLS 65	222,000	65	6.5	7,500	7	180	Ja	41.526.300
Dimensions heater only (cm)								
	L	W	H	KG				
ITLS 65	99	118	166	260				

FUEL TYPE



ITLS 85
Available from September/
October 2014.



ITLS 85

This indirect fired heater is ideal for use in areas where products of combustion, CO₂ or water vapour may be detrimental and are not required. Combustion gases are discharged via a flue system and the burner is supplied with fresh outside air, ensuring that clean warm air only is blown into the room. Due to its large air throw of 45 metres, a good air circulation and heat distribution is guaranteed and if applicable, less support ventilators are required. Optionally, the heater can be equipped with a modulating burner for more precise temperature control. The heat exchanger is accessible via service panels and the heater can easily be cleaned with compressed air or a high pressure washer. The heater is suitable for both natural gas and propane.

WORKING PRINCIPLE

- 100% clean and dry heat.
- 91,5% efficiency.
- Fresh air supply for the burner.
- Large air throw of 45 meter.
- Low noise level of 68 dBA (5 m).
- Suitable for gas G25, G20 and G31.

FEATURES

- Stainless steel casing.
- Robust tubular heat exchanger.
- Closed combustion system.
- Flexible flue material.
- No CO₂ in the house.
- Up to 25% energy saving due to less ventilation being required.
- Optional modulating burner control.
- Easy to service.
- CE approved.

APPLICATIONS

Agriculture

- Heating of sheds, and workshops.
- Drying of agricultural products.
- Heating of poultry houses.

Horticulture

- Heating of greenhouses and polytunnels.
Without risk of harmful CO₂ and CO emission.

Industry

- Heating of factories and transit sheds.
Without risk of harmful CO₂ and CO emission.

TECHNICAL SPECIFICATIONS | DIMENSIONS AND WEIGHTS

1 kW = 860 kcal/h 1 kW = 3,413 Btu/h 1 kW = 3.6 MJ/h 1 kg = 1.2 l/h

MODEL	Heat output (Btu/hr)	Heat output (kW/hr)	Gas consumption max. (m ³ /hr) G20/G25	Gas consumption max. (kg/hr) G31	Air throw (m)	Heated air flow (m ³)	Power consumption 230 V (AMPS)	Thermostat connection	ITEM NUMBER
ITLS 85	290,000	85	8.8/9.9	6.6	45	8,000	3.9	Ja	41.850.000
Dimensions heater only (cm)									
	L	W	H	KG					
ITLS 85	163.5	77.5	87,8 (101*)	150					

* Hight including fan.

GA Direct propane gas fired

FUEL TYPE



GA 110 E

GA 60/85 E

GA 42 E

GA 25 E



Servo motor with gasvalve.
(see page 19).



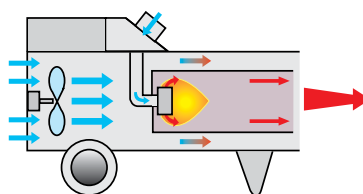
GA 42 with floor- and suspension
brackets.



GA 60/85 with suspensions
brackets.

WORKING PRINCIPLE

- Direct heat with 100% efficiency.
- Adjustable capacity.
- Adjustable outlet temperature between 80-185 °C (1 m).
- Clean burner because of fresh air connection (GA 60 E / GA 85 E en GA 110 E).
- The models from GA 42 E can be connected to a modulating system.



FEATURES

- All GA models with burner relay, ionization flame protection, thermostat connector and hose breakage protection.
- Clean combustion, easy to maintain.
- High capacity for low price.
- Wheels GA 60/85 E available as an accessory.
- Wheels GA 110 E are standard.
- Full humidity and dust proof control panel. (Except GA 25 E)
- Removable exterior cover for service.
- Gas valves with built-in filter. Twin gas valves for safety.
- KIWA-CE certified.
- Room ventilation is required.
- GA 25 is not suitable for stables.
- GA models (except the GA 25 E) can both blow horizontally and vertically (up or down) near a drying system.



APPLICATIONS

Agriculture

- Heating of sheds.
- Drying of agricultural products.

Livestock

- Heating of pig and poultry houses.

Horticulture

- Heating of greenhouses and polytunnels (N.B. control CO₂ and CO emission).

SPECIAL APPLICATION

The portable and mobile models can be connected to gas bottles for onsite use. For larger models sufficient gas pressure must be available and two or even three 47 kg bottles are required. The heaters may also be connected to a bulk propane tank. All GA models (except GA 25 E) can be connected to a modulating control unit.

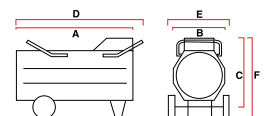
TECHNICAL SPECIFICATIONS | DIMENSIONS AND WEIGHTS

1 kW = 860 kcal/h 1 kW = 3,413 Btu/h 1 kW = 3.6 MJ/h 1 kg = 1.2 l/h

MODEL	Heat output (Btu/hr)		Heat output (kW)		Fuel consumption gas (kg/hr)		Heated air flow (m ³ /hr)	Power consumption 230 V (AMPS)	Gas connection Ø (inch)	Gas pressure on heater (bar)	Thermostat connection	ITEM NUMBER
	Min.	Max.	Min.	Max.	Min.	Max.						
GA 25 E	43,000	85,000	12.5	25	0.9	1.8	800	0.30	1/2	0.5-1.5	Yes	43.030.000
GA 42 E	48,000	150,000	18	44	1.4	3.2	760	0.60	1/2	0.4-1.5	Yes	40.277.000
GA 60 E*	92,000	218,000	27	64	1.9	4.6	2,400	0.64	1/2	0.4-2.0	Yes	40.707.005
GA 85 E*	133,000	317,000	39	93	2.8	6.7	2,400	0.64	1/2	0.4-2.0	Yes	40.707.002
GA 110 E	184,000	444,000	54	130	3.9	9.3	4,000	2.20	1/2	0.4-2.0	Yes	40.710.005

* Standard without wheels, for wheel sets see Accessories

MODEL	Dimensions heater only (cm)						KG	Dimensions including packing (cm)			
	A	B	C	D	E	F		L	B	H	KG
GA 25 E	55	28	50				13	60	30	55	14
GA 42 E	58	37	45				16	70	40	50	17
GA 60 E	100	46	47	109	47	58	36	110	50	60	41
GA 85 E	100	46	47	109	47	58	36	110	50	60	41
GA 110 E	118	53	60	118	63	77	55	129	67	94	71



GA EV Direct propane fired, vertical

FUEL TYPE



GA 110 EV



GA 60 EV / GA 85 EV

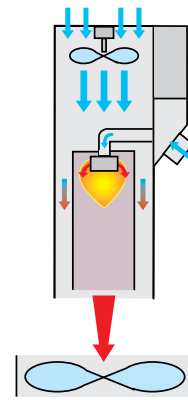
WORKING PRINCIPLE

- Full humidity and dust proof control panel.
- Clean burner because of fresh air connection.
- Removable exterior cover for service.

ADVANTAGES

- GA-EV models can both blow horizontally and vertically. (up or down) near a fan of a drying system.
- Clean combustion.
- Easy to maintain.
- High capacity for low price.
- All GA and GA-EV models have suspension hooks.
- Technical specifications as per GA E models.

Before operation when GA 42/60/85/110 EV are blowing up or down, a technician should rotate the solenoid valve 90 degrees. (more information in the manual).



APPLICATIONS

Agriculture

- Drying and storing of agricultural products.
- Intense drying of flower bulbs, when a high ventilation standard is required to prevent harmful ethylene emission.

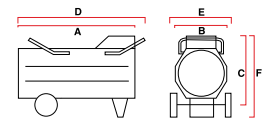
TECHNICAL SPECIFICATIONS | DIMENSIONS AND WEIGHTS

1 kW = 860 kcal/h 1 kW = 3,413 Btu/h 1 kW = 3.6 MJ/h 1 kg = 1.2 l/h

MODEL	Heat output (Btu/hr)		Heat output (kW)		Fuel consumption gas (kg/hr)		Heated air flow (m³/hr)	Power consumption 230 V (AMPS)	Gas connection Ø (inch)	Gas pressure on heater (bar)	Thermostat connection	ITEM NUMBER
	Min.	Max.	Min.	Max.	Min.	Max.						
GA 42 EV	48,000	150,000	18.0	44	1.4	3.2	760	0.60	1/2	0.4-1.5	Yes	40.277.000
GA 60 EV*	92,000	218,000	27.0	64	1.9	4.6	2,400	0.64	1/2	0.4-2.0	Yes	40.707.005
GA 85 EV*	133,000	317,000	39.0	93	2.8	6.7	2,400	0.64	1/2	0.4-2.0	Yes	40.707.002
GA 110 EV	184,000	444,000	54.0	130	3.9	9.3	4,000	2.20	1/2	0.4-2.0	Yes	40.710.005

* Standard without wheels, for wheel sets see Accessories

MODEL	Dimensions heater only (cm)						KG	Dimensions including packing (cm)				KG
	A	B	C	D	E	F		L	B	H		
GA 42 EV	58	37	45				16	70	40	50	17	
GA 60 EV*	100	46	47	109	47	58	36	110	50	60	41	
GA 85 EV*	100	46	47	109	47	58	36	110	50	60	41	
GA 110 EV	118	53	60	118	63	77	55	129	67	94	71	



MODULATING CONTROL UNITS MS 20, MS 40 AND MS 60

With the **MS 60**, a drying plant operating to a maximum of 60 kg of propane gas per hour, 40 kg for the **MS 40** and 20 kg for the **MS 20** can be controlled in which several heaters (also all horizontal models) can be connected.

The modulating control unit ensures that the heat capacity is automatically and constantly adapted to the requirement at any moment. This is a continuous process. The drying of products at highly fluctuating outside temperatures can thus be improved considerably. The desired temperature is set on the control panel which measures the temperature of the crop

by means of a sensor. The panel controls the gas pressure regulator with a servo motor which provides more or less gas flow to the burners and the temperature is adjusted until the preset value is reached. The measured temperature value is digitally readable. The servo motor and the gas pressure regulator of these units are also available separately and can be connected to a central storage computer.

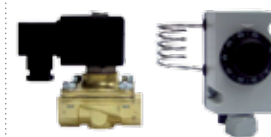
The smaller unit **MS 20** is supplied as a separate controller, gas pressure regulator and servo motor. On this unit 2 to 6 heaters can be connected.

ADVANTAGES

- MS 20:
 - Modulating drying of smaller amounts of crop for an economic price.
- MS 40 and MS 60:
 - Accurate adjustable crop temperature (to 0,1 °C).
 - Saving on cost of fuel.
 - Superior product quality.
 - Modulate different sections at the same time.



Servo motor with gas valve for connection to central computer.



Fire protection system.

MODULATING CONTROL UNITS	ITEM NUMBER
Modulating control unit MS 20 (1-20 kg propane), adjusting range 0.4-2.0 bar, Ø connection 1/4" IN-3/8" OUT, supply 230 VAC	40.301.018
Modulating control unit MS 40 (1-40 kg propane), adjusting range 0.4-2.0 bar, Ø connection 1/4" IN-3/8" OUT, supply 230 VAC	40.301.069
Modulating control unit MS 60 (1-60 kg propane), adjusting range 0.4-2.0 bar, Ø connection 1/4" IN-3/8" OUT, supply 230 VAC, 3-point control with manual operation	40.301.019
Connection accessory for external computer (instead of complete ms):	
Modulating gas valve with servo motor MG 60, Ø connection 1/2":	
Modulating gas valve with servo motor MG 60, supply 230 VAC 50/60 Hz, 3-point control with manual operation	40.301.029
Modulating gas valve with servo motor MG 60, supply 230 VAC 50/60 Hz, 3-point control, pot. meter 5K-Ohm for feedback	40.301.055
Modulating gas valve with servo motor MG 60, supply 24 VAC 50/60 Hz, control 0-10 Vdc	40.301.056
Modulating gas valve with servo motor MG 60, supply 24 VAC 50/60 Hz, 3-point control, pot. meter 1K-Ohm for feedback	40.301.052
Modulating gas valve with servo motor MG 60, supply 24 VAC 50/60 Hz, 3-point control	40.301.054
Modulating gas valve with servo motor MG 40, adjusting range 0.4-2.0 bar, Ø connection 1/2":	
Modulating gas valve with servo motor MG 40, supply 230 VAC 50/60 Hz, 3-point control	40.301.066
Modulating gas valve with servo motor MG 40, supply 24 VAC 50/60 Hz, 3-point control with feedback	40.301.067
Modulating gas valve with servo motor MG 40, supply 24 VAC, 3-point control	40.301.072
Modulating gas valve with servo motor MG 40, supply 24 VAC, 0-10 Vdc	40.301.073
Modulating gas valve with servo motor MG 20, adjusting range 0.4-2.0 bar, Ø connection 1/4" IN-3/8" OUT:	
Modulating gas valve with servo motor MG 20, supply 230 VAC 50/60 Hz, 3-point control	40.301.058
Modulating gas valve with servo motor MG 20, supply 24 VAC 50/60 Hz, control 0-10 Vdc	40.301.064
Modulating gas valve with servo motor MG 20, supply 24 VAC 50/60 Hz, 3-point control	40.301.065
Modulating gas valve with servo motor MG 20, supply 24 VAC 50/60 Hz, 3-point control with pot. meter	40.301.075
Modulating gas valve with servo motor MS 24, (DVGW approved for Germany) supply 230 VAC 50/60 Hz, 3-point control	40.301.077
Special equipment	
Temperature probe PT 100 with 10 m cable	40.301.033
Temperature probe PTC 1000 with 10 m cable	40.301.063
Fire protection system for crop drying (propane gas), supply 230 VAC	40.301.045
Fire protection system for crop drying (propane gas), supply 24 VAC	40.301.046
- Magnetic gas valve for propane gas, 230 VAC, to place in gas supply pipe (max. 60 kg/hr)	40.301.047
- Magnetic gas valve for propane gas, 24 VAC, to place in gas supply pipe (max. 60 kg/hr)	40.301.080
- Magnetic gas valve for propane gas, (DVGW approved for Germany) 230 VAC, to place in gas supply pipe (max. 60 kg/hr)	40.301.093
- Room-/maximum thermostat 0/60 °C	40.301.049
Suspension bracket GA 42 E	40.277.033
Suspension bracket GA 60/85/110 E	40.301.007
Shell coupling (male 1/2" left thread)	40.252.259
Gas quick coupling (female 3/8")	40.301.025
Gas quick coupling (female 1/2")	40.301.032

AGA E Direct propane/natural gas fired

FUEL TYPE



AGA 111 E

AGA 75 E

AGA 45 E



Standard external air suction system with a wall connector for AGA 45/75/102/111 E.



Full humidity and dust proof control panel AGA 45/75 E.



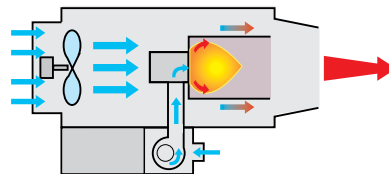
Optional: protection cover for AGA 45 E and AGA 75 E.



Full humidity and dust proof control panel AGA 111 E.

WORKING PRINCIPLE

- Direct heat with 100% efficiency.
- Fixed outlet temperature approx. 100-130 °C.
- Large air throw.
- Clean burner because of fresh air connection.
- Fan for optimum combustion air.



FEATURES

- With fresh air intake to the burner.
- Easy access for service, good heat distribution, easy access for cleaning.
- Full humidity and dust proof control panel containing all electronic components.
- Burner with electronic ignition, ionization protection and thermostat connection.
- Room ventilation is required, even for models with separate fresh air intake to the burner.
- KIWA-CE certified.
- All models can be used horizontally and vertically, blowing either upwards or downwards.
- AGA 45/75/102/111 E are equipped with 5 metres fresh air suction hose, 2 hose clamps and SS wall connector for fresh air intake.
- AGA 100 E is not equipped with fresh air intake to the burner.
- AGA 102 E is standard equipped with fresh air intake and modulating burner, not suitable for propane gas.
- AGA 45/75/100/111 E suitable for propane and natural gas.

Please note:

- Before ordering please specify gas type.
- When using propane gas or high pressure natural gas a pre-pressure regulator is required.
- For AGA models the following pressure at the heater is required:
AGA 45/75/100/111 E: minimum 25 millibar, maximum 100 millibar.
AGA 102 E: minimum 25 millibar, maximum 50 millibar.
- If the gas supply pressure is higher than the maximum a pressure regulator is required (accessory).
- Installation by approved gas fitter is mandatory.



APPLICATIONS

- Livestock**
 - Heating of pig and poultry houses.
- Agriculture**
 - Drying of agricultural products.
- Horticulture**
 - Heating of greenhouses and polytunnels (N.B. Control CO₂ and CO emission.)

TECHNICAL SPECIFICATIONS | DIMENSIONS AND WEIGHTS

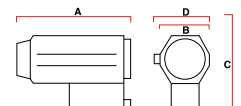
1 kW = 860 kcal/h 1 kW = 3,413 Btu/h 1 kW = 3.6 MJ/h 1 kg = 1.2 l/h

MODEL	Heat output max. (Btu/hr)		Heat output max. (kW)			Gas consumption max. (m ³ /hr)			Heated air flow (m ³ /hr)	Power consumption 230 V (AMPS)	Air throw (m)	Gas connection Ø (Inch)	Thermostat connection	ITEM NUMBER
	Gas 25*	Gas 20	Propane	Gas 25*	Gas 20	Propane								
AGA 45 E	154,000	45	5.0	4.0	3.2	2,500	1.0	15	1/2	Yes	40.745.200			
AGA 75 E	256,000	75	8.3	7.1	5.4	4,500	1.9	25	1/2	Yes	40.775.200			
AGA 100 E**	358,000	105	11.2	9.0	7.5	7,000	4.8	40	1/2	Yes	40.720.070			
AGA 102 E**	358,000	105	6.0-13.9	4.3-11.2	-	7,000	5.5	40	1/2	Yes	40.722.100			
AGA 111 E	358,000	105	11.2	9.0	7.5	7,000	5.3	40	1/2	Yes	40.731.050			

* Gas 25 is used in The Netherlands, in most areas of France and in some areas of Belgium.

** Available on request

MODEL	Dimensions heater only (cm)						KG	Dimensions including packing (cm)			
	A	B	C	D	E	F		L	B	H	KG
AGA 45 E	106	-	40	68	-	-	37	113	84	60	52
AGA 75 E	110	-	52	81	-	-	52	113	84	70	67
AGA 100 E	138	60	85	-	-	-	70	155	75	101	110
AGA 102 E	138	-	85	70	-	-	86	155	75	101	105
AGA 111 E	138	-	85	57	-	-	84	155	75	101	108



ANCILLARIES

Pre-pressure regulator

ITEM NUMBER

40.720.063

Fire protection system for crop drying (natural gas), supply 230 V (24 V execution available optionally), consisting of:

- magnetic gas valve for natural gas, to place in gas supply pipe (execution depending on amount of gas and diameter of pipe)
- room/maximum thermostat 0/60 °C, to place in drying installation

40.301.078

40.301.049

Protection cover for gas unit AGA 45 E and AGA 75 E

40.745.098

Modular regulator for AGA 102 E: RE-THA-6

40.722.018

Connecting module 0-10 Volt, for connection of the AGA 102 E to an external computer

40.722.019

TAS 800 E Direct oil fired | with large air throw

FUEL TYPE



TAS 800 E



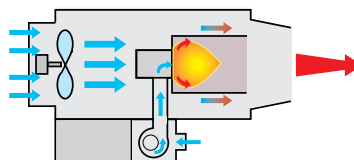
Full humidity and dust proof control panel containing all vulnerable components.



Fresh air intake connection prevents pollution of the burner.

WORKING PRINCIPLE

- Direct heat with 100% efficiency.
- Fixed outlet temperature circa 60-100 °C.
- Large air throw.
- Clean burner because of fresh air connection.
- Fan for optimum combustion air.
- High pressure pump for diesel or paraffin.



FEATURES

- Standard with fresh air intake to the burner.
- Good heat distribution, optimum combustion.
- Full humidity and dust proof control panel.
- Easy access for cleaning.
- Durable phosphated body parts with stainless steel casing.
- Thermostat connection.
- Electric switch components in full humidity and dust proof control panel (IP 54).
- With burner relay, photocell flame control and thermostat connection.
- High pressure pump with 2-way pipe system for connection to bulk tank (max. length 50 m/height 3 m, depends on diameter of pipe).
- Room ventilation is required.



APPLICATIONS

Livestock

- Heating pig and poultry houses.

Agriculture

- Drying of agricultural products.

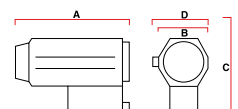
Horticulture

- Heating of greenhouses and polytunnels (N.B. Only use paraffin and control CO₂ and CO emission).

TECHNICAL SPECIFICATIONS | DIMENSIONS AND WEIGHTS

1 kW = 860 kcal/h 1 kW = 3,413 Btu/h 1 kW = 3.6 MJ/h 1 kg = 1.2 l/h

MODEL	Heat output (Btu/hr)		Heat output (KW)		Fuel consumption oil max. (l/hr)	Heated air flow (m ³ /hr)	Power consumption 230 V (AMPS)	Air throw (m)	Thermostat connection	ITEM NUMBER																							
	A	B	C	D	E	F	KG	L	B		H	KG																					
TAS 800 E	324,000	95	9.5	7,000	4.6	40	Ja	40.467.000																									
	Dimensions heater only (cm) <table border="1" style="display: inline-table; margin-right: 20px;"> <tr> <td>A</td><td>B</td><td>C</td><td>D</td><td>E</td><td>F</td><td>KG</td> </tr> <tr> <td>152</td><td>-</td><td>85</td><td>58</td><td>-</td><td>-</td><td>81</td> </tr> </table> Dimensions including packing (cm) <table border="1" style="display: inline-table;"> <tr> <td>L</td><td>B</td><td>H</td><td>KG</td> </tr> <tr> <td>154</td><td>74</td><td>101</td><td>90</td> </tr> </table>											A	B	C	D	E	F	KG	152	-	85	58	-	-	81	L	B	H	KG	154	74	101	90
A	B	C	D	E	F	KG																											
152	-	85	58	-	-	81																											
L	B	H	KG																														
154	74	101	90																														



FUEL TYPE



AT 500
(DUCTING SET OPTION)

AT 400
(DUCTING SET OPTION)

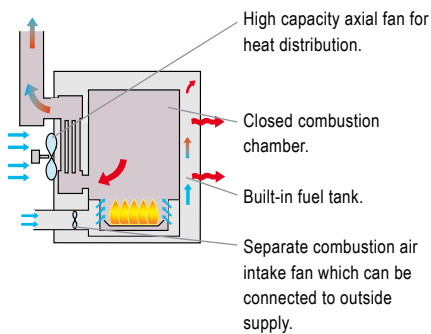
AT 307

AT 306

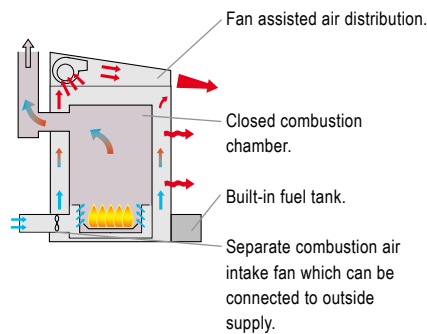
WORKING PRINCIPLE

- Built in heat exchanger AT 400/500 for high efficiency.
- Burner draw system AT 400/500 for ease of lighting.
- Ducting set AT 400/500 (option): radial fan and adaptor box for connection to ducting (not available in the UK).

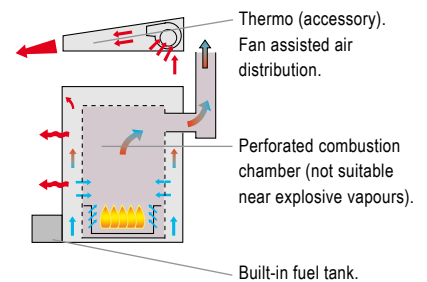
AT 400/500



AT 307



AT 306



FEATURES

- Durable and safe housing with powder coating.
- Radiation heat on three sides.
- 100% Clean heat.
- Fixed outlet temperature approx. 50-70 °C.
- Internal vapourising burner.
- High/low manual heat regulation.
- Manual ignition system.
- Overheat security thermostat.
- Oil overflow security system.
- Saving on fuel expenses.
- Odourless combustion.
- Built-in day tank.



DUCTING SET FOR AT 400/500/BIOENERGY 2
(optional)



Built-in overflow protection for burner dish.

APPLICATIONS

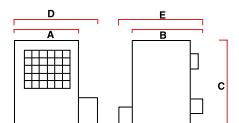
- Agriculture** • Heating workshops.
- Industry** • Heating and frost protection of halls, transit sheds and warehouses.
- Automotive** • Heating of garage workshops.

Burning of used oil is not always allowed. Consult your local regulations.

TECHNICAL SPECIFICATIONS | DIMENSIONS AND WEIGHTS

1 kW = 860 kcal/h 1 kW = 3,413 Btu/h 1 kW = 3.6 MJ/h 1 kg = 1.2 l/h

MODEL	Heat output (Btu/hr)		Heat output (kW)		Min.	Max.	Fuel consumption oil (l/hr)		Heated air flow (m ³ /hr)	Tank capacity (l)	Power consumption 230 V (AMPS)	Flue connection Ø (mm)	Thermostat connection	ITEM NUMBER																																																																																																
	Low	Hi	Low	Hi																																																																																																										
AT 306*	68,000	92,000	20	27	2.0	2.7	-	-	50	0.60	150	No	41.905.000																																																																																																	
Thermo AT 306	-	-	-	-	-	-	800	-	-	0.57	-	No	41.904.104																																																																																																	
AT 307*	68,000	92,000	20	27	2.0	2.7	800	50	0.80	150	No	41.906.000																																																																																																		
AT 400	82,000	140,000	24	41	3.0	4.0	3,000	55	1.10	150	No	41.921.000																																																																																																		
AT 500	123,000	201,000	36	59	4.3	6.2	3,000	55	1.20	200	No	41.911.000																																																																																																		
* Standard with extra burner dish.																																																																																																														
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="7">Dimensions heater only (cm)</th> <th colspan="6">Dimensions including packing (cm)</th> </tr> <tr> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>E</th> <th>F</th> <th>KG</th> <th>L</th> <th>B</th> <th>H</th> <th>KG</th> </tr> </thead> <tbody> <tr> <td>AT 306 excl. Thermo</td> <td>-</td> <td>-</td> <td>113</td> <td>73</td> <td>54</td> <td>-</td> <td>60</td> <td>90</td> <td>62</td> <td>131</td> <td>78</td> </tr> <tr> <td>Thermo AT 306</td> <td>-</td> <td>-</td> <td>25</td> <td>60</td> <td>56</td> <td>-</td> <td>17</td> <td>67</td> <td>60</td> <td>32</td> <td>17</td> </tr> <tr> <td>AT 307</td> <td>-</td> <td>-</td> <td>137</td> <td>87</td> <td>54</td> <td>-</td> <td>75</td> <td>90</td> <td>62</td> <td>131</td> <td>93</td> </tr> <tr> <td>AT 400</td> <td>88</td> <td>82</td> <td>108</td> <td>-</td> <td>-</td> <td>-</td> <td>135</td> <td>102</td> <td>87</td> <td>122</td> <td>168</td> </tr> <tr> <td>AT 500</td> <td>88</td> <td>82</td> <td>129</td> <td>-</td> <td>-</td> <td>-</td> <td>165</td> <td>102</td> <td>87</td> <td>141</td> <td>195</td> </tr> <tr> <td>Ducting set AT 400/500</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>109</td> <td>50</td> <td>59</td> <td>27</td> </tr> </tbody> </table>															Dimensions heater only (cm)							Dimensions including packing (cm)						A	B	C	D	E	F	KG	L	B	H	KG	AT 306 excl. Thermo	-	-	113	73	54	-	60	90	62	131	78	Thermo AT 306	-	-	25	60	56	-	17	67	60	32	17	AT 307	-	-	137	87	54	-	75	90	62	131	93	AT 400	88	82	108	-	-	-	135	102	87	122	168	AT 500	88	82	129	-	-	-	165	102	87	141	195	Ducting set AT 400/500	-	-	-	-	-	-	-	109	50	59	27
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AT 306 excl. Thermo	-	-	113	73	54	-	60	90	62	131	78																																																																																																			
Thermo AT 306	-	-	25	60	56	-	17	67	60	32	17																																																																																																			
AT 307	-	-	137	87	54	-	75	90	62	131	93																																																																																																			
AT 400	88	82	108	-	-	-	135	102	87	122	168																																																																																																			
AT 500	88	82	129	-	-	-	165	102	87	141	195																																																																																																			
Ducting set AT 400/500	-	-	-	-	-	-	-	109	50	59	27																																																																																																			



ANCILLARIES

Extra burner dish AT 306/307	41.900.521
Extra burner dish AT 400/500	41.910.145
Ducting set** for AT 400/500 (ducting connector and radial fan)	41.910.300

** Not available in the U.K.



BIOENERGY 1

BIOENERGY 2

FEATURES

- Saves on fuel costs.
- Environmentally friendly.
- Low emissions of harmful gases.
- Built in tank.
- BioEnergy 1 has radial fan, BioEnergy 2 has axial fan.
- Type of fuel: rapeseed oil and certain vegetable oils.
- BioEnergy 2 has a built in heat exchanger for high performance.
- BioEnergy 2 ducting set (optional) radial fan and duct for connection of air ducts.
- Odourless burning.
- High/low capacity control.
- Capacities of 27 and 41 kW.
- To control chimney draught and facilitate drainage of condensate water, a T-piece with draught stabiliser and condensate trap is included.

APPLICATIONS

- Agriculture** • Heating workshops, sheds, garages and warehouses.
- Automotive** • Heating garage workshops and warehouses.

TECHNICAL SPECIFICATIONS | DIMENSIONS AND WEIGHTS

1 kW = 860 kcal/h 1 kW = 3,413 Btu/h 1 kW = 3.6 MJ/h 1 kg = 1.2 l/h

MODEL	Heat output (Btu/hr)		Heat output (kW)		Fuel consumption oil (l/hr)		Heated air flow (m³/hr)	Tank capacity (l)	Power consumption 230 V (AMPS)	Flue connection Ø (mm)	Thermostat connection	ITEM NUMBER
	Min.	Max.	Min.	Max.	Min.	Max.						
BioEnergy 1*	68,000	92,000	20	27	2	2.7	800	50	0.8	150	No	41.906.150
BioEnergy 2	82,000	140,000	24	41	3	4.0	3,000	55	1.1	150	No	41.921.150
* Standard with extra burner dish.												
	Dimensions heater only (cm)							Dimensions including packing (cm)				
Thermo*	A	B	C	D	E	F	KG	L	B	H	KG	
BioEnergy 1	-	-	137	87	54	-	68	90	62	131	95	
BioEnergy 2	88	82	108	-	-	-	135	102	87	122	168	
Kanaalkit BioEnergy 2	-	-	-	-	-	-	-	109	50	59	27	
* Thermo is separately packed.												

Ancillaries

	ITEM NUMBER
Burner dish for BioEnergy 2	41.910.145
Burner dish for BioEnergy 1	41.900.521
Ducting set for BioEnergy 2 (ducting connector and radial fan)	41.910.300

FUEL TYPE



PRODRY 80

PRODRY 55

PRODRY 35



ProDry 35/55
With condensate collection tank.



ProDry 80
With fixed drainage.

FEATURES

- ProDry 35/55 equipped with condensate collection tank with overflow prevention.
- Connection for fixed drainage (ProDry 80 standard).
- Quick dehumidification of the air.
- Compact dehumidifiers with high capacities.
- Heavy-duty handle makes transport easier.
- Control panel with warning lights for defrosting and full tank.
- Fully automatic operation with electronic control of condensation and defrosting process.
- Low-noise compressor and fan.
- Simple operation.
- Equipped with hour counter (hygrostat optional).
- Stackable



Operating panel.

APPLICATIONS

General

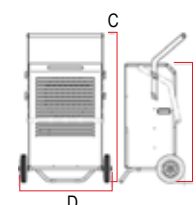
- Drying of flooded basements, halls and archives.
- Drying of structural works.
- To dry damp areas.

TECHNICAL SPECIFICATIONS | DIMENSIONS AND WEIGHTS

1 kW = 860 kcal/h 1 kW = 3,413 Btu/h 1 kW = 3.6 MJ/h 1 kg = 1.2 l/h

MODEL	Capacity (l-24h)		Operating range	Air flow (m³/h)	Power consumption 230 V (AMPS)	Tank capacity (l)	ITEM NUMBER		
	Max.	30 °C/65% RV						30 °C/85% RV	
ProDry 35	30	17.2	26.8	2-32	35-100	350	2.7	6	50.500.350
ProDry 55	55	35.0	53.0	2-32	35-100	600	3.5	6	50.500.550
ProDry 80	80	48.0	80.0	2-32	35-100	850	4.8	-	50.500.800
Multibar tube (p.m.)									00.003.207

	Dimensions ProDry only (cm)						Dimensions including packing (cm)				
	A	B	C	D	E	F	KG	L	B	H	KG
ProDry 35	-	-	82	54	55	-	35	60	53	68	38
ProDry 55	-	-	96	54	55	-	38	63	54	78	43
ProDry 80	-	-	115	60	71	-	61	65	70	67	65



CH/VTB/ProHeat 18 Electric Heaters

FUEL TYPE



Hose system to reach difficult areas.



Thermostat for CH 12/18, see accessories

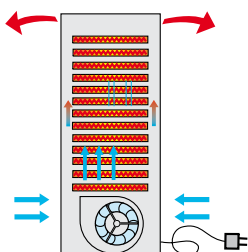
Electric heaters are especially applicable in rooms where:

- Available oxygen cannot be spared for combustion.
- No open flame is allowed.
- Clean dry heat is essential.
- Low noise level is required.
- An odour free environment is necessary.
- All 400 volt 3-phase heaters are provided with a 5 pin plug in which the 3 phases and earth are connected

WORKING PRINCIPLE

PROHEAT 18

- Thermostat connection.
- Stainless steel elements.
- Radial fan for larger heat throw.
- 100% Clean and dry heat.
- Fixed outlet temperature approx. 40-120 °C.
- Space and spot heating.
- Higher outlet temperature.



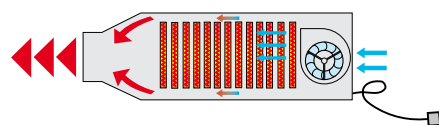
FEATURES

- Three sided outlet opening.
- Bodywork in stainless steel.
- 9 kW and 18 kW capacity.
- External thermostat is optional.
- Comfortable heat.
- Suitable for closed areas.
- Can be used instantly where power is available.

WORKING PRINCIPLE

VTB/CH

- Built-in thermostat (only VTB).
- Stainless steel elements.
- Radial fan for extra heat throw (VTB).
- Axial fan (CH).
- 100% Clean and dry heat.
- Fixed outlet temperature approx. 40-100 °C.
- Space and spot heating.
- Higher outlet temperature.



FEATURES

- Hose connection possible.
- VTB 3000/9000 with hand grip.
- CH 3/12/18 with hand grip.
- VTB 15000/18000 with wheels.
- CH 12/18 with wheels.
- Comfortable heat.
- Suitable for closed areas.
- Can be used instantly where power is available.



APPLICATIONS

- Building industry** • Heating and drying out rooms, often in conjunction with a dehumidifier.
- Industry** • Heating of offices, canteens, stores, warehouses etc.
- Livestock** • Heating poultry houses.
- Horticulture** • Heating of sorting areas and greenhouses.
- Agriculture** • Heating of livestock areas, dairy parlours, workshops and packing sheds.

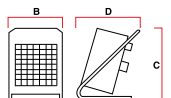
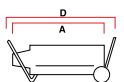
TECHNICAL SPECIFICATIONS | DIMENSIONS AND WEIGHTS

1 kW = 860 kcal/h 1 kW = 3,413 Btu/h 1 kW = 3.6 MJ/h 1 kg = 1.2 l/h

MODEL		Heat output (Btu/h)		Voltage (V)	Heated air flow (m ³ /h)		Adjustment range (kW)	Delta T (°C)	Power consumption (AMPS)	Outlet connection Ø (mm)	Thermostat	ITEM NUMBER
		Min.	Max.		Min.	Max.						
ProHeat 18	3,4)	61,000	18	3x400	-	1,000	0-9-18	120	13-26	-	Yes	40.018.000
VTB 3000	1)	9,560	3	1x230	-	225	0-3	60	13	98	Yes	40.107.030
VTB 9000	2)	31,000	9	3x400	-	550	0-4-5-9	100	11,5-13	120	Yes	40.107.035
VTB 15000	3)	51,000	15	3x400	-	1,000	0-6-9-15	38-60-100	8-14-23	150	Yes	40.107.025
VTB 18000	3)	61,000	18	3x400	-	1,000	0-9-18	70-110	14-26	150	Yes	40.107.040
CH 3	1)	10,000	3	1x230	-	250	0-3	60	13	160	-	40.107.091
CH 12	3)	41,000	12	3x400	-	600	0-6-9-12	100	18	300	-	40.107.092
CH 18	3)	61,000	18	3x400	-	1,500	0-9-13.5-18	90	26	300	-	40.107.093

1) with 230 V-cable 2) with 400 V-cable and 16 AMPS plug 3) with 400 V-cable + 32 AMPS plug 4) Provide with thermostat connection.

MODEL	Dimensions heater only (cm)						KG	Dimensions including packing (cm)			
	A	B	C	D	E	F		L	B	H	KG
ProHeat 18	-	40	97	51	-	-	40	107	70	57	53
VTB 3000	-	34	31	40	-	-	11	45	36	35	12
VTB 9000	-	34	31	68	-	-	18	72	36	35	21
VTB 15000	-	86	52	48	-	-	33	102	46	51	39
VTB 18000	-	86	52	48	-	-	33	102	46	51	39
CH 3	38	28	39	-	-	-	11	38	28	38	13
CH 12	66	37	45	-	-	-	23	65	37	45	25
CH 18	55	43	58	-	-	-	28	55	42	58	30



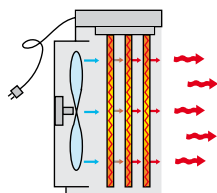
BX/TBD 18 Electric Heaters

FUEL TYPE



WORKING PRINCIPLE BX

- Built-in thermostat.
- Stainless steel elements.
- 100% Clean and dry heat.
- Fixed outlet temperature approx. 30-60 °C (2 steps on BX 9).
- Selector switch for continuous fan operation or thermostat controlled fan operation.

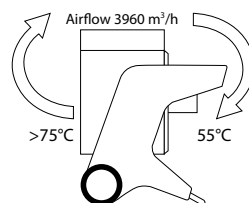


FEATURES

- Combined frame suitable for suspension as well as carrying.
- Stackable.
- Comfortable heat.
- Suitable for closed areas.
- Can be used instantly where power is available

WORKING PRINCIPLE TBD 18 (PC)

- The ambient air is sucked in from a powerful fan and heated by heating elements with a total capacity of 18 kW.
- The heated air can be directed with precision to the desired site.
- The device is equipped with a thermostat that is freely adjustable up to a maximum intake temperature of 55 °C, which results in an outlet temperature of at least 75 °C. The TBD 18 is restricted at 55 °C outlet temperature and not suitable for Pest Control.
- Multiple protections against overheating.
- Controllable by remote thermostat.



FEATURES

- Suitable for closed areas.
- Can be used instantly where power is available.
- Can be installed in areas with higher temperatures and thus extremely well applicable for thermal pest control (PC version only).
- Built-in thermostat.
- Stainless steel elements.
- Airflow can be properly directed by tilting principle.
- Thanks to wheels very mobile and easy to move.
- Easy to set up, little preparation.
- Powerful air circulation.



TBD 18 AND TBD



18 PC



TBD 18

Detail control panel.

APPLICATIONS BX

- Building Industry** • Heating and drying out rooms, often in conjunction with a dehumidifier.
- Industry** • Heating of offices, canteens, stores, warehouses etc.
- Livestock** • Heating poultry houses.
- Horticulture** • Heating of sorting areas and greenhouses.
- Agriculture** • Heating of livestock areas, dairy parlours, workshops and packing sheds.

APPLICATIONS TBD 18 (PC)

- Industry** • Thermal pest control (PC version only).
- Building Industry** • Heating and drying of building locations and all-weather projects.
- Drying of buildings after flooding.
- Heating of transit sheds, workshops and warehouses.
- Defrosting pipework and installations.
- Heating of poultry houses.
- Livestock** • Drying of agricultural products.
- Agriculture** • Heating of greenhouses and polytunnels.

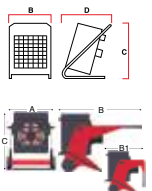
TECHNICAL SPECIFICATIONS | DIMENSIONS AND WEIGHTS

1 kW = 860 kcal/h 1 kW = 3,413 Btu/h 1 kW = 3.6 MJ/h 1 kg = 1.2 l/h

MODEL		Heat output (Btu/h)		Voltage (V)	Heated air flow (m ³ /h)		Adjustment range (kW)	Delta T (°C)	Power consumption (AMPS)	Outlet connection Ø (mm)	Thermostat	ITEM NUMBER
		1)	2)		Min.	Max.						
BX 3	1)	10,000	3	1x230	-	220	0-2-3	38	8.9-13.2	-	Yes	40.107.005
BX 9	2)	31,000	9	3x400	700	900	0-4-5-9	36-28	6.8-13.3	-	Yes	40.107.015
BX 15	3)	51,000	15	3x400	-	1,000	0-7.5-15	42	11.2-21.9	-	Yes	40.107.020
BX 20		68,000	20	3x400	-	1,750	0-10-20	32	15-29.5	-	Yes	40.107.021
BX 30		102,000	30	3x400	-	2,200	0-20-30	47-34	43.4	-	Yes	40.107.022
TBD 18	4)	61,000	18	3x400	-	3,960	0-9-18	20	14-26	-	Yes	40.017.100
TBD 18 PC	4)	61,000	18	3x400	-	3,960	0-9-18	20	14-26	-	Yes	40.017.000

1) with 230 V-cable 2) with 400 V-cable and 16 AMPS plug 3) with 400 V-cable + 32 AMPS plug 4) Provide with thermostat connection.

MODEL	Dimensions heater only (cm)						KG	Dimensions including packing (cm)			
	A	B	C	D	E	F		L	B	H	KG
BX 3	-	28	33	37	-	-	6	36	28	34	7
BX 9	-	35	45	37	-	-	12	40	36	49	14
BX 15	-	52	49	39	-	-	13	40	36	49	15
BX 20	-	57	57	61	-	-	25	51	44	69	29
BX 30	-	57	57	61	-	-	30	51	44	69	34
TBD 18 (PC)	70	B1/120 B/176	83	-	-	-	68	120	87	105	92



VAL Infra-red radiant oil fired

FUEL TYPE



IFT 42

VAL 6 EPX

VAL 6 1-STEP

VAL 6 KB

VAL MIDI

VAL DAYSTAR

IFT 21



VAL with fuel level indicator. (Not on VAL 6 KB.)



Vertical inclining with locking mechanism.



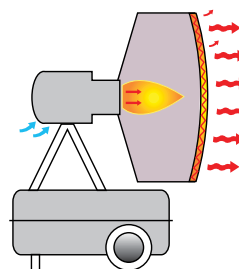
Folding push bar VAL MIDI.

WORKING PRINCIPLE

- Odourless without air flow.
- Fixed radiation temperature circa 150 °C at 70 cm (20 °C at 3 m).
- Spot heating (and limited space heating).

FEATURES

- High pressure burner with 15 sec. prepurge control system and 180 sec. postpurge.
- Photocell flame control.
- Combustion chamber of fibre ceramic.
- Thermostat operation is possible.
- 230 V/50 Hz connection.
- Room ventilation is required.
- Mobile framework. (DAYSTAR and IFT 21 portable).
- VAL EPX with oversized tank for 20 burning hours (low) and 15 burning hours (high). IFT42 18 burning hours, VAL 1-step 10 burning hours, VAL 6 KB 16 burning hours.
- VAL EPX equipped with overvoltage detector, integrated thermostat and larger radiation disc for 20% further en wider radiation.
- VAL 6 1-STEP may be inclined both vertically as well as horizontally.
- VAL 6 KB with oversized tank for 16 burning hours.
- Oil preheating set VAL 6 (optional).
- 45° Vertical inclination infra-red heat screen.
- Odourless, personal (and limited space) heating, no air movement.





APPLICATIONS

- Building industry** • Spot heating on work sites.
- Industry** • Spot heating in workshops, transit sheds and warehouses.
- Warming up and defrosting machines.
- Agriculture** • Spot heating in large sheds.
- Horticulture** • Spot heating in work areas.

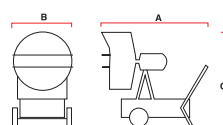
TECHNICAL SPECIFICATIONS | DIMENSIONS AND WEIGHTS

1 kW = 860 kcal/h 1 kW = 3,413 Btu/h 1 kW = 3.6 MJ/h 1 kg = 1.2

MODEL	Heat output (Btu/hr)	Heat output (kW)	Fuel consumption oil max. (l/hr)	Tank capacity (l)	Power consumption 230 V (AMPS)	ITEM NUMBER
VAL 6 1-STEP	136,500	40	3.7	40	0.25	40.106.200
VAL 6 EPX	136,500	40	3.7	58	0.25	40.106.400
VAL 6 KB	136,500	40	3.7	60	0.25	40.106.100
VAL MIDI	112,600	33	3.1	35	0.25	40.106.050
VAL DAYSTAR	51,000	15	1.4	10	0.50	40.106.030
IFT 42	143,000	42	4.0	60	0.60	40.106.500
IFT 21	71,600	21	1.5	15	0.60	40.106.021

	Dimensions heater only (cm)							Dimensions including packing (cm)			
	A	B	C	D	E	F	KG	L	B	H	KG
VAL 6 1-STEP*	120	62	93	-	-	-	53	71	65	72	63
VAL 6 EPX	124	65	97	-	-	-	50	71	95	102	59
VAL 6 KB	91	69	91	-	-	-	57	70	66	93	61
VAL MIDI	71	66	81	-	-	-	38	96	67	93	43
VAL DAYSTAR	58	31	59	-	-	-	17	64	35	67	20
IFT 42	120	76	113	-	-	-	62	71	65	72	81
IFT 21	53	36	56	-	-	-	15	53	37	56	17

* VAL 6 1-STEP components are packed in 3 boxes.





ENERGYTENDER

The EnergyTender is a high quality KIWA certified tank (IBC) and can be obtained in 995, 2000 and 3000 litres. Due to its robust design the EnergyTender is able to withstand rough handling. The lockable pump room cabinet provides protection against theft. After use the EnergyTender can be stacked to save space. The EnergyTender is ideal for the rental business.

- The EnergyTender comes in three versions. There is always an IBC that meets your specific needs!
- The EnergyTender can easily be mounted onto a trailer.
- The EnergyTender can be delivered in any RAL colour so that it seamlessly fits with your corporate identity.
- The EnergyTender meets current VLG / KIWA and ADR regulations. That means that this tank may be used anywhere on location.

FEATURES OF THE ENERGYTENDER

- 2½" fill and 1½" level opening with brass cap.
- 1 x 1" suction pipe capped.
- 1 x 2" and 1 x 1" spare connection points with caps.
- Venting with outflow restrictor.
- Forklifts slots and 4 lifting eyes.
- 1 cover (995), split cover (2000/3000).
- Mechanical contents gauge.
- 2x suction pipe ½" and 2x return connection ½" with ball valve.
- 4 way liftable.
- Fully stackable during transport.
- KIWA certified.

TECHNICAL SPECIFICATIONS | DIMENSIONS AND WEIGHTS

1 kW = 860 kcal/h 1 kW = 3,413 Btu/h 1 kW = 3.6 MJ/h 1 kg = 1.2 l/h

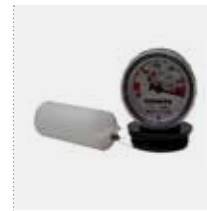
MODEL	Capacity (litre)	Length (cm)	Width (cm)	Height (cm)	Weight empty (kg)	ITEM NUMBER
EnergyTender 995 NLC	995	156	120	130	465	99.999.995
EnergyTender 2000 NLC	2,000	219	120	150	860	99.992.000
EnergyTender 3000 NLC	3,000	309	120	150	1,200	99.993.000



Connections.



Leak detector.



Level indicator.



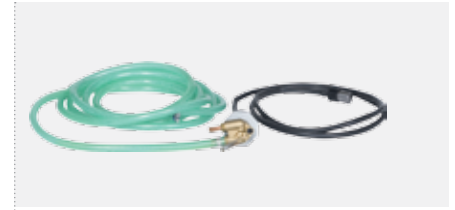
Rain cap for Multitank.



Tank trolley.



Connection kit for connecting multiple Multitanks.



Oil suction set Multitank.

MULTITANKS

Multitanks are TÜV certified double-walled fuel tanks. They are available in two sizes, 700 and 1000 litres. The Multitank is equipped with a metal outer tank and a plastic inner tank and is equipped with 2" connections and a leakage indicator. For linking various Multitanks there is a connection set available. In case of outdoor installation we recommend the optional lockable rain cover. For local transport the Multitank trolley is available.

FEATURES OF THE MULTITANKS

- Double-walled.
- Plastic (HDPE) inner tank (no rust).
- Metal outer tank with 100% bund.
- Both sizes have the same footprint.
- Easily connectable.
- 2" female thread connections.
- Level meter.
- Leak detector.
- TÜV certified.

TECHNICAL SPECIFICATIONS | DIMENSIONS AND WEIGHTS

1 kW = 860 kcal/h 1 kW = 3,413 Btu/h 1 kW = 3.6 MJ/h 1 kg = 1.2 l/h

MODEL	Capacity (litre)	Length (cm)	Width (cm)	Height (cm)	Weight empty (kg)	ITEM NUMBER
Multitank 700	700	114	73	119	62	99.999.700
Multitank 1000	1,000	114	73	163	81	99.999.701
Trolley*		104	145	25	82	99.099.100

* Unmounted and packed.

FUEL ACCESSORIES

	Multitank 700 litres	Multitank 1000 litres	ITEM NUMBER
Connection kit for connecting multiple Multitanks.	*	*	99.999.703
Oil suction set Multitank.	*	*	99.999.707
Tank heating Multitank.	*	*	99.999.717
Rain cap for Multitank	*	*	99.999.820
Tank trolley	*	*	99.099.100

ACCESSORIES



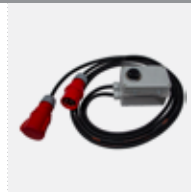
RT1, RT2, RT3



IT1



DA1



Thermostat for CH 12/18.



Digital timer, burning and ventilating.



Fault detector GSM.



GSM temperature fault detector.

THERMOSTATS

RT1, room thermostat -10/+40 °C with 5 m cable and plug, IP 54, switching differential ± 2 degrees.	*	*	*	*	*	*	*	*		40.228.405
RT2, as RT1, with 10 m cable IP 54.	*	*	*	*	*	*	*	*		40.228.410
RT3, as RT1, with 20 m cable IP 54.	*	*	*	*	*	*	*	*		40.228.420
IT1, duct thermostat 0/100 °C with 6 m cable and plug, switching differential ± 1.5%. For control of temperature in ducting system.	*	*	*	*	*	*	*	*		40.000.107
DA1, dual connection for thermostat. For control of 2 heaters on 1 thermostat.	*	*	*	*	*	*	*	*		41.729.220
Thermostat for CH 12/18									*	40.107.098
Extension cable 10 m for thermostat, with plug.	*	*	*	*	*	*	*	*		40.202.140
Thermostat plug.										40.000.031
Chassis piece for thermostat plug.	*	*	*	*	*	*	*	*		40.202.087
Fault detector GSM IMA.				*						41.722.720
Fault detector GSM IMAC.					*					41.729.540
Fault detector GSM room temperature monitoring, no connections needed. Regardless of the type of heater.	*	*	*	*	*	*	*	*		40.223.400

	TA	TAS	ITA	IMA	IMAC	GA	AGA	ProHeat	CH 12/18	ITEM NUMBER
RT1, room thermostat -10/+40 °C with 5 m cable and plug, IP 54, switching differential ± 2 degrees.	*	*	*	*	*	*	*	*		40.228.405
RT2, as RT1, with 10 m cable IP 54.	*	*	*	*	*	*	*	*		40.228.410
RT3, as RT1, with 20 m cable IP 54.	*	*	*	*	*	*	*	*		40.228.420
IT1, duct thermostat 0/100 °C with 6 m cable and plug, switching differential ± 1.5%. For control of temperature in ducting system.	*	*	*	*	*	*	*	*		40.000.107
DA1, dual connection for thermostat. For control of 2 heaters on 1 thermostat.	*	*	*	*	*	*	*	*		41.729.220
Thermostat for CH 12/18									*	40.107.098
Extension cable 10 m for thermostat, with plug.	*	*	*	*	*	*	*	*		40.202.140
Thermostat plug.										40.000.031
Chassis piece for thermostat plug.	*	*	*	*	*	*	*	*		40.202.087
Fault detector GSM IMA.				*						41.722.720
Fault detector GSM IMAC.					*					41.729.540
Fault detector GSM room temperature monitoring, no connections needed. Regardless of the type of heater.	*	*	*	*	*	*	*	*		40.223.400

SWITCHING / ELECTRONICS

Transformer set for electrical connections without 0		*	*	*						41.728.190
Transformer set for electrical connections without 0					*					41.729.250
Soft-starter set for gradual run-in of fan		*	*	*						41.728.203
Earth leakage switch					*					41.729.094
Hour counter	*	*	*	*		*	*			41.728.235
Digital timer, burning and ventilating	*	*	*	*						41.728.302
VFD fan speed controller (only factory option)			*	*	*					41.724.930

	IMA 61	IMA 111	IMA 150	IMA 200	IMAC 2000 S	IMA 61/111/150 AXIAL	ISA 65	ITEM NUMBER
Transformer set for electrical connections without 0		*	*	*				41.728.190
Transformer set for electrical connections without 0					*			41.729.250
Soft-starter set for gradual run-in of fan		*	*	*				41.728.203
Earth leakage switch					*			41.729.094
Hour counter	*	*	*	*		*	*	41.728.235
Digital timer, burning and ventilating	*	*	*	*				41.728.302
VFD fan speed controller (only factory option)		*	*	*				41.724.930



Set of air wheels.

TRANSPORT AND STORAGE

Set of air wheels for synthetic tank	*							40.223.195
Set of air wheels with axle parts		*	*					40.404.220
Set of air wheels with axle parts + base				*				41.300.053
Set of air wheels					*			40.404.300
Set of air wheels						*		40.404.400
Set of air wheels with axle parts							*	41.722.237
Various transport frames							*	ON DEMAND

	TA 16/22/30	TA 40	TA 60	ITA 30/35	ITA 45	ITA 75	IMA Serie	ITEM NUMBER
Set of air wheels for synthetic tank	*							40.223.195
Set of air wheels with axle parts		*	*					40.404.220
Set of air wheels with axle parts + base				*				41.300.053
Set of air wheels					*			40.404.300
Set of air wheels						*		40.404.400
Set of air wheels with axle parts							*	41.722.237
Various transport frames							*	ON DEMAND

	GA 60 E	GA 85 E	GA 110 E							ITEM NUMBER
Set of standard wheels with axle + base	*	*								40.707.094
Set of standard wheels with axle + base			*							40.710.124



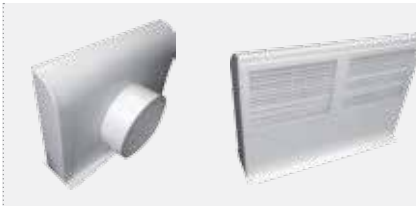
Distribution head for ITA.



For IMA models.



For IMAC models.



Air distributor.

WARM AIR TRANSPORT AND ANCILLARIES

DISTRIBUTION HEADS FOR ITA

To be connected to outlet cone of heater including 1 quick release clamp and 2 hose clips

Air distributor

	ITA 30/35	ITA 45	ITA 75							ITEM NUMBER
OUTLET OPENINGS										
2x200 mm	*									41.300.125
2x300 mm		*	*							41.404.153
400 mm		*	*							50.500.450

DISTRIBUTION HEADS FOR IMA

To be fixed instead of standard outlet panel (ex works, if necessary), excluding clamps

Air distributor

Connection piece 300 to 400 mm for air distributor

Connection piece 150 to 400 mm for air distributor

	IMA 61	IMA 111	IMA 150	IMA 200	IMAC	ITA				ITEM NUMBER
OUTLET OPENINGS										
2x300 mm	*									41.722.068
4x300 mm		*	*							41.724.177
2x360 mm		*	*							41.724.192
4x300 mm				*						41.728.177
2x400 mm				*						41.728.443
2x500 mm				*						41.728.068
400 mm	*	*	*		*	*				50.500.450
	To connect hoses 300 mm to the air distributor (400 mm)									50.500.475
	To connect hoses 150 mm to the air distributor (400 mm)									50.500.465

DISTRIBUTION HEADS FOR IMAC

	IMAC 2000 S	IMAC 4000 E								ITEM NUMBER
OUTLET OPENINGS										
1x500 mm	*									41.729.804
2x500 mm	*									41.729.997
4x300 mm	*									41.729.820
6x300 mm	*									41.729.862
1x800 mm		*								41.740.565
2x600 mm		*								41.740.560
3x500 mm		*								41.740.050

ACCESSOIRES



ITA Connection piece.



Lifting bracket set.

CONNECTION PIECES FOR ITA

To be connected to outlet cone of heater to protect hose from too high temperatures incl. 2 quick release clamps.

Lifting bracket set ITA 45 Robust

Lifting bracket set ITA 75 Robust

OUTLET OPENINGS	ITA 30/35	ITA 45	ITA 75	ITA 45 ROBUST	ITA 75 ROBUST	ITEM NUMBER
Ø 300 mm	*					99.084.041
Ø 400 mm		*	*			41.404.152
				*		41.450.002
					*	41.751.002



Glass fibre with neoprene coating, -40/+140 °C.



Polyamide with pvc-coating, -30/+100 °C.

ATTENTION: Hoses produce BACK PRESSURE which can cause the heater to switch off. Avoid too LONG and/or too NARROW hoses and too many BENDS. Heaters with RADIAL fans are especially suited.

WARM AIR TRANSPORT HOSES

Temperature resistant -40/+140 °C grey

LENGTH 5 m	VTB 3000	VTB 9000	VTB 15000/18000	ITA 30/35, CH 12/18	Distrib. head ITA 45/75	ITA 45/75	IMA 200	IMAC 2000 / IMAC 4000	ITEM NUMBER
Ø 150 mm			*						40.107.071
Ø 300 mm				*	*				40.107.077
Ø 400 mm						*			40.107.079
Ø 500 mm							*		40.107.080
Ø 600 mm								*	40.107.081
Ø 100 mm	*								40.107.270
Ø 120 mm		*							40.107.275

WARM AIR TRANSPORT HOSES

Temperature resistant -30/+100 °C yellow

LENGTH 6 m	ITA 30/35	ITA 45/75	Distrib. head IMA 61/111/150/200	ISA 65	Distrib. head ITA 30/35	Distrib. head 45/75	Distrib. head IMA 111/150	IMA 61	IMA 111/150 Distrib. head IMA 200	IMA 200 / IMAC 2000 S	Distrib. head IMAC 2000 S	IMAC 4000 E depending on outlet diam.	ITEM NUMBER
Ø 200 mm				*									40.107.273
Ø 300 mm	*		*		*								40.107.276
Ø 365 mm						*							40.107.278
Ø 400 mm		*						*					40.107.280
Ø 500 mm			*					*	*	*	*	*	40.107.282
Ø 600 mm									*	*	*	*	40.107.284
Ø 800 mm											*	*	40.107.286

On request warm air transport hoses temperature resistant -40/+80 °C and warm air transport hoses in other colours are available.



Connection pieces for hose with sleeve.



Rubber quick release clamps.



Various reducing and coupling pieces.



Steel quick release clamps.



Hose clips.

CONNECTION PIECE FOR HOSES WITH SLEEVE

To connect hoses, including 2 hose clips.

CONNECTION PIECE

ITEM NUMBER

Ø 300 mm
Ø 400 mm

41.218.071
41.404.154

RUBBER QUICK RELEASE CLAMPS FOR HOSES WITH END RING

To connect hoses and if desired to fix to the heater flange.

HOSE

Ø 200 mm
Ø 300 mm
Ø 365 mm
Ø 400 mm
Ø 500 mm
Ø 600 mm
Ø 800 mm

40.502.065
40.502.067
40.502.068
40.502.069
40.502.071
40.502.073
40.502.075

GALVANIZED HOSE CLIPS

To fasten hoses to the heater flange or to a connection piece.

Ø 100-102 mm
Ø 130-165 mm
Ø 60-600 mm

40.509.158
40.502.251
41.522.196

STEEL QUICK RELEASE CLAMPS

Specially suited to fasten hoses to ITA models.

Ø 305 mm
Ø 400 mm

41.200.051
41.404.117



"Easy connect" recirculation flange.



Recirculation hoses.

RECIRCULATION FLANGES

Recirculation flange with bayonet connection for models from production year 2008 and up

HOSE
Ø 300 mm
Ø 400 mm
Ø 500 mm
Ø 600 mm

IMA 61

IMA 111

IMA 150/200

IMAC 2000 S

ITEM NUMBER

41.722.140
41.724.425
41.728.445
41.729.878

Recirculation set for models up to production year 2008

Ø 400 mm
Ø 400 mm
Ø 500 mm

*

*

*

*

41.722.120
41.724.008
41.728.008

RECIRCULATION HOSES Ø 400 mm

LENGTH

5 m
10 m

IMA 111

IMA 150/200

IMAC 2000 S

IMAC 4000 E

ITEM NUMBER

41.729.223
41.729.224
41.729.228
41.729.246
41.729.241
41.729.242

RECIRCULATION HOSES Ø 500 mm

5 m
10 m

RECIRCULATION HOSES Ø 600 mm

5 m
10 m

ACCESSOIRES



45 degrees bend for hose connection on marquees.

HOSE CONNECTION BEND 45 DEGREES

To connect hoses to marquees.

DIAMETER

Ø 300 mm

Ø 400 mm

Ø 500 mm

ITA 30/35

IMA 61 / ITA 45/75

IMA 111/150

IMAC 2000 / 2200 distr. head 300

IMAC 2000 / 2200 distr. head 500

IMAC 4000 distr. head 500

ITEM NUMBER

41.000.300

41.000.400

41.000.500



Fresh air connection flanges.



Fresh air suction hoses.



Wall connector.

SUCTION OF FRESH AIR

FRESH AIR SUCTION HOSES 5 m

For suction of clean fresh air

DIAMETER

Ø 102 mm

AGA 45/75/102/111 E

GA 60/85/110 E

TAS 800 E

ITEM NUMBER

41.000.585

STAINLESS STEEL WALL CONNECTOR WITH RAINCAP

Prevents raining in and back pressure

DIAMETER

Ø 100 mm

TAS 800 E

GA 60/85/110 E

AGA 45/75/102/111 E

ITEM NUMBER

40.721.016

FRESH AIR SUCTION FLANGES

Suction flange for oil burner SL 22

Suction flange for oil burner SL 44/55

IMA 61

IMA 111

IMA 150

IMA 200

IMAC 2000 S

ITEM NUMBER

99.095.025

99.095.026



Pipes.



Rain caps.



Bushing set for flue.



Chimney clamp ITA 35/45/75.

FLUE STACKS

	Ø (mm)	ITA 30/35	ITA 45	ITA 75	IMA 61 / ISA 65	IMA 111/150/200	IMAC 2000 S	IMAC 4000 E	AT 3XX/400	AT 500	ITEM NUMBER
Galvanized pipes 1 meter	Ø 150 mm	*	*						*		41.000.562
	Ø 180 mm			*	*						41.522.172
	Ø 200 mm					*	*			*	41.528.192
	Ø 300 mm							*			41.740.665
Galvanized rain caps	Ø 150 mm	*	*						*		41.000.565
	Ø 180 mm			*							41.522.175
	Ø 200 mm					*	*			*	41.528.187
	Ø 300 mm							*			41.740.666
Galvanized bends 45°	Ø 150 mm	*							*		41.000.561
	Ø 180 mm		*	*	*						41.522.171
	Ø 200 mm					*	*				41.528.230
	Ø 300 mm							*			41.740.667
Bushing set for flue in polytunnels	Ø 150 mm	*							*		41.652.250
	Ø 180 mm		*	*	*						41.750.250
	Ø 200 mm					*	*				41.528.181
Chimney clamp set ITA 35/45		*								41.404.099	
Chimney clamp set ITA 75			*							41.750.099	



Connection set for gas bottles.

Connection set for gas bottles

	GA	ITEM NUMBER
Connection set for gas bottles, to increase evaporating capacity	*	40.700.054

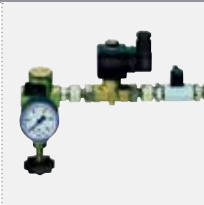
ACCESSOIRES



Connection set for connecting several Multitanks.
Conversion kit.



Oil supply unit.



Connection/reduction set.

Fuel accessories

Conversion kit from 1-way to 2-way pipe system, for suction from bulk tank, maximum length 50 m/height 3 m (depends on diameter of pipe). To be mounted on fuel pump.

Oil supply unit DE 600, 60 litre to transport oil under pressure from bulk tank to one or more heaters, to maximum height of 30 m.

Needed per heater: connection/reduction set with magnetic valve

Oil preheating with cable (voor SL 22)

Oil preheating with cable (voor SL 44/SL 55)

Oil filter with water separation and bracket for return pipe

Oil filter with water separation, interchangeable with current filter

Oil filter set with preheating

Oil suction set universal

	T	TA	ITA	IMA 61	IMA 111/150/200 / IMAC 2000/4000	TAS 800	ITEM NUMBER
Conversion kit from 1-way to 2-way pipe system, for suction from bulk tank, maximum length 50 m/height 3 m (depends on diameter of pipe). To be mounted on fuel pump.	*	*	*				41.402.114
Oil supply unit DE 600, 60 litre to transport oil under pressure from bulk tank to one or more heaters, to maximum height of 30 m.	*	*	*	*	*	*	41.530.005
Needed per heater: connection/reduction set with magnetic valve	*	*	*	*	*	*	41.522.213
Oil preheating with cable (voor SL 22)							41.527.212
Oil preheating with cable (voor SL 44/SL 55)							41.527.211
Oil filter with water separation and bracket for return pipe				*			41.722.230
Oil filter with water separation, interchangeable with current filter						*	40.467.052
Oil filter set with preheating				*	*		41.722.370
Oil suction set universal				*	*		41.520.104



Measuring tools.

SERVICE TESTING EQUIPMENT

Pressure gauge 0-25 bar 1/8" BSP

Pressure gauge 0-25 bar 1/4" BSP, glycerine filled

Valve 1/8" outer X 1/4" inner

Pressure gauge 0-0.6 bar

Soot pump, complete with paper and lubricant

Testing paper for soot pump

Filling liquid for CO2-meter

Interrest for oil heaters with SATRONIC burner relays UP 940

Testing unit for oil heaters with SATRONIC oil burner relays UP 711

Testing unit for oil heaters with SATRONIC gas burner relays UP 712

Smoegas thermometer

Spray can with paint, colour red, content 400 ml

Spray can with paint, colour anthracite, content 400 ml

ITEM NUMBER

40.000.185

40.000.332

40.000.349

40.225.146

40.000.190

40.000.189

40.000.191

40.223.102

40.223.101

40.000.330

40.000.192

60.530.075

60.530.077

RECIRCULATION FANS TTV



FEATURES

- Easily portable.
- Easily stackable.
- Shock proof synthetic fan housing.
- Double-sided grille according to CE-standard.
- Isolation class F, IP 65.
- With cable and plug.
- Adjustable support.
- Protected 3-step control regulator.

OPTIONS

- Hose connection piece to be used on either side.

APPLICATIONS

Especially developed for use under very severe conditions in the building industry and rental business.

DOWNFLOW FANS SDS



FEATURES

- Heat recovery by re-circulating high level warm air back to occupancy level.
- Reduced fuel bills by eliminating excess heat loss through the roof.
- Improved comfort level for occupants.
- Durable phosphated body panels with powder coating.
- Four eye bolt suspension points are provided.
- Ready for automatic operation with installations only requiring mounting and connection of a single phase electrical supply to a ground level isolation switch.
- Each fan is fitted with an integral thermostat switching on at temperature rise.
- Available in three sizes with mounting heights from 5 m to 10 m and air volumes from 3,800 m³/hr to 10,800 m³/hr.

APPLICATION

The SDS de-stratification fans are purpose designed to provide a permanent reduction in roof space temperature in high buildings such as factories, warehouses and sports centres.

TECHNICAL SPECIFICATIONS | DIMENSIONS AND WEIGHTS

MODEL	Power (W)	Ø (mm)	RPM	Airflow (m ³ /hr)	Power consumption 250 V/50 Hz (AMPS)	Air throw (m)	Noise level (dB(A))	Number of fans	Max. mounting height (m)	Length (mm)	Width (mm)	Height (mm)	Weight (kg)	ITEM NUMBER
TTV 4500	230	420	1,400	4,500	1.1	45	60	1	-	-	-	-	-	50.500.210
TTV 7000	390	518	1,400	7,000	1.8	55	64	1	-	-	-	-	-	50.500.220
SDS 4	320	-	900	3,800	-	-	41	1	5	688	650	400	18	50.500.400
SDS 6	350	-	900	5,800	-	-	48	1	7	600	650	400	21	50.500.410
SDS 10	700	-	900	10,800	-	-	51	2	10	650	1,200	400	36	50.500.420

OPTIONS	TTV 4500	TTV 7000	ITEM NUMBER
Hose connection piece 450 mm	*		50.500.211
Hose connection piece 550 mm		*	50.500.221
Hose 450 mm, L=7.6 m	*		50.500.212
Hose 550 mm, L=7.6 m		*	50.500.222