

A FEW PRACTICAL BENEFITS:

Particularly economic solution for standard oil heating

Durable housing made of doubly coated sheet steel

Integrated fuel tank with filling level indication

Electronic flame trap

Overheating protection

Stainless steel combustion chamber

Integrated thermostat

Connection for external thermostat

Carriage for an easy change of location (except IDE 20 D)

IDE oil heater fans

Space heater and sensational bargain in one – the reliable, cost-effective solution for typical oil heating applications on construction sites, in halls and workshops or in agriculture.



TKL TROTEC RENTAL DIVISION

You need to rent an oil heater on a short-term basis?

Use the quick and cost-effective rental solutions from Europe's leading renter for sub-rentals:

- unbeatable rental prices
- attractive transport costs
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- delivery all over Europe

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Trotec has the optimum oil heating unit on offer for your requirements:



IDE OIL HEATER FANS

The oil heater fans of the IDE series are cost-effective solutions with sound technology for typical standard heating tasks with direct, on-site warmth.



IDS OIL HEATER FANS

In contrast, the robust oil heater fans of the IDS pro series with their high air flow rates were also designed for flexible heating applications over longer distances covered by warm air hoses.

IDS oil heater fans can be found from page 62 onwards ...



ID OIL HEATING UNITS

Our ID pro series offers you oil heating units that have been especially adapted for the toughest practical requirements in rough surroundings, e.g. rentals at various sites

ID oil heating units can be found from page 60 onwards ...



Whether direct or indirect – Trotec's IDE series offers you maximum heating power for any heating applications at all times

Direct oil heaters of the IDE series

The direct oil heaters of the IDE series are optimally suited for outdoor use, e.g. for heating outdoor construction sites and agricultural areas, or for use inside well-ventilated interior spaces, for they emit 100 % of the heat they produce. Hence, direct heaters also have no chimney. Or in other words, this process yields a heating power efficiency of 100 %.

In a directly heated system the fan blowing out the heated air also brings along combustion air.

First, fuel is atomised, ignited and burned in the combustion chamber. Then the hot gases are admixed to the main air current of the fan in accurate proportions.

In addition to heat, direct heaters thus also emit combustion gases directly into the room. For this reason, they are unsuitable for poorly ventilated, closed rooms used by people or animals.

Since plenty of moisture is released during combustion, direct heaters should never be used for construction drying.

Indirect oil heaters of the IDE series

The indirect oil heaters are ideally suited for rooms in which ventilation is only possible to a certain extent, but which are still used by people or animals. They are also a good choice for speeding up construction drying as well as in rooms where there is a fire hazard due to combustible substances.

In case of indirect heaters, the air to be heated is completely isolated from the combustion chamber. The air is heated

while flowing past the enlarged area of the combustion chamber, the heat exchanger. To be sure, the fan blowing out warm air also provides the required combustion air, but the combustion products are led away into the open air through a chimney.

Thus, in order to obtain both clean and dry warmth, we recommend using an indirect heater.

Unlike direct heaters, they do not emit any combustion products or water vapour into the room air, provided that the optionally available flue gas discharge is used.

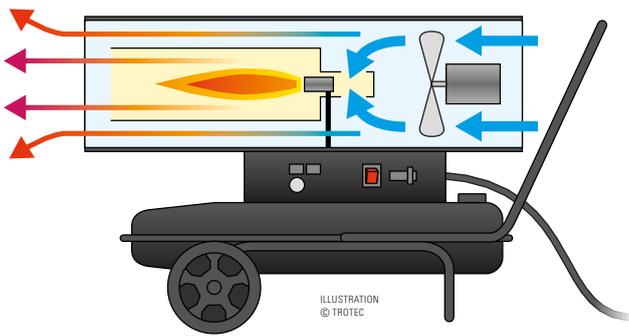


ILLUSTRATION © TROTEC

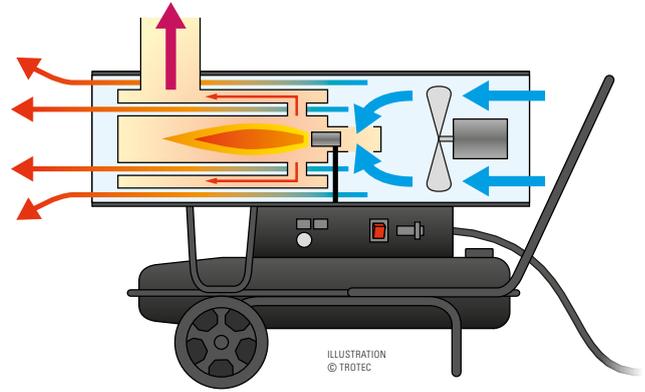
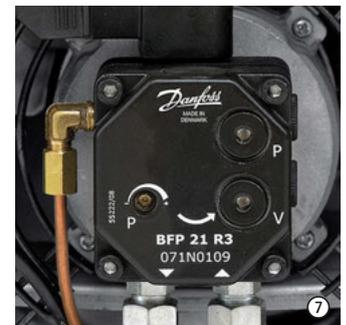
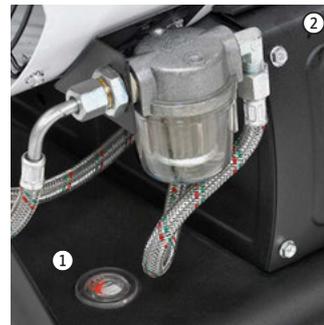


ILLUSTRATION © TROTEC

Model-specific equipment differences	IDE 20	IDE 30	IDE 50	IDE 60	IDE 80	IDE 20 D	IDE 30 D	IDE 50 D	IDE 60 D	IDE 100 D
Tank filling level indication ①	■	■	■	■	■	■	■	■	■	■
External fuel filter ②	-	■	■	■	■	-	-	-	-	■
Cable holder ③	-	■	■	■	■	-	-	-	-	■
Electronic thermostat ④	-	■	■	■	■	-	-	-	-	■
Analogue thermostat ⑤	■	-	-	-	-	■	■	■	■	-
Danfoss® pump ⑦	-	■	■	■	■	-	-	-	-	■



For a need-based temperature adjustment, the IDE devices are equipped with an integrated thermostat, either as an analogue version ⑤ or as an electronic version with additional dual display of the nominal and actual value ④, depending on the model. Moreover, all IDE device are fitted with a connection for an external thermostat ⑥ allowing you to measure and control the temperature at a distance of up to 25 metres from the place to be heated (thermostat optionally available).

To ensure constant firing of the stainless steel combustion chamber, the fuel supply of many IDE devices is effected by means of a high-quality Danfoss® injection pump ⑦.

Indirectly fired IDE oil heater fans

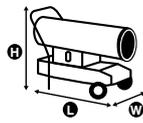


Technical data		IDE 20	IDE 30	IDE 50	IDE 60	IDE 80
Article number		1.430.000.215	1.430.000.220	1.430.000.230	1.430.000.235	1.430.000.240
Method of heating		indirect	indirect	indirect	indirekt	indirect
Amount of air [m³/h]		600	760	2.000	2.000	2.000
Fan		Axial fan	Axial fan	Axial fan	Axial fan	Axial fan
Nominal heat output [kW (kcal)]		20 (17,200)	30 (25,800)	50 (44,100)	60 (51,600)	80 (68,800)
Increase in temperature ¹ ΔT [°C]		90	95	62	90	105
Input voltage [V/Hz]		230 / 50	230 / 50	230 / 50	230 / 50	230 / 50
Current consumption [A]		0.8	1.5	3.2	3.68	3.68
Max. oil consumption [l/h]		1.6	2.4	4.8	4.8	7.4
Outlet nozzle / hose connection ø [mm]		–	300 ²	400 / 440 ²	400 / 440 ²	400 / 440 ²
Chimney connection ø [mm]		120	120	150	150	150
Integrated thermostat		Series	Series	Series	Series	Series
Connection for external thermostat		Series	Series	Series	Series	Series
Fuel feed		Fuel pump	Danfoss® pump	Danfoss® pump	Danfoss® pump	Danfoss® pump
Fuel filter		Series	Series	Series	Series	Series
Tank capacity [l]		24	56	68	68	68
Sound level (distance 1 m) [dB(A)]		65	75	78	85	85
Length [mm] ³		920	1,107	1,365	1,334	1,334
Width [mm]		450	498	550	574	574
Height [mm]		650	766	985	1,030	1,030
Weight [kg]		21	34.2	56.7	59.5	59.4
Available accessories		IDE 20	IDE 30	IDE 50	IDE 60	IDE 80
Hose connector		–	ø 300 mm, Article no. 6.100.006.180	ø 440 mm, Article no. 6.100.006.179	ø 440 mm, Article no. 6.100.006.179	ø 440 mm, Article no. 6.100.006.179
External thermostat with 25 m cable		Article no. 6.100.006.113	Article no. 6.100.006.112	Article no. 6.100.006.112	Article no. 6.100.006.112	Article no. 6.100.006.112
Exhaust gas pipe rigid, length 1 m		Article no. 6.100.006.212	Article no. 6.100.006.212	Article no. 6.100.006.210	Article no. 6.100.006.210	Article no. 6.100.006.210
90° arc connection for exhaust gas pipe		Article no. 6.100.006.218	Article no. 6.100.006.218	Article no. 6.100.006.216	Article no. 6.100.006.216	Article no. 6.100.006.216
Exhaust gas pipe rain cover		Article no. 6.100.006.224	Article no. 6.100.006.224	Article no. 6.100.006.222	Article no. 6.100.006.222	Article no. 6.100.006.222
Air hose Tronect SP-C ⁵		–	Article no. 6.100.006.265	Article no. 6.100.001.270	Article no. 6.100.001.270	Article no. 6.100.001.270
Connection kit for external oil tank		–	Article no. 6.100.006.183	Article no. 6.100.006.183	Article no. 6.100.006.183	Article no. 6.100.006.183
Adapter set tank set-oil hose		–	Article no. 7.210.000.003	Article no. 7.210.000.003	Article no. 7.210.000.003	Article no. 7.210.000.003
Tank line with quick couplings, length 5 m		–	Article no. 6.100.006.037 ⁴	Article no. 6.100.006.037 ⁴	Article no. 6.100.006.037 ⁴	Article no. 6.100.006.037 ⁴
Fuel tank	1,000 litres ⁶	–	Article no. 6.100.006.011	Article no. 6.100.006.011	Article no. 6.100.006.011	Article no. 6.100.006.011
	3,000 litres ⁶	–	Article no. 6.100.006.012	Article no. 6.100.006.012	Article no. 6.100.006.012	Article no. 6.100.006.012



**Directly fired
IDE oil heater fans (D)**



Technical data	IDE 20 D	IDE 30 D	IDE 50 D	IDE 60 D	IDE 100 D
Article number	1.430.000.050	1.430.000.065	1.430.000.070	1.430.000.074	1.430.000.090
Method of heating	direct	direct	direct	direct	direct
Amount of air [m³/h]	650	850	1,200	1,300	1,300
Fan	Axial fan	Axial fan	Axial fan	Axial fan	Axial fan
Nominal heat output [kW (kcal)]	20 (17,200)	30 (25,800)	50 (43,000)	60 (51,600)	100 (85,985)
Increase in temperature ¹ ΔT [°C]	140	210	180	150	350
Input voltage [V/Hz]	230 / 50	230 / 50	230 / 50	230 / 50	230 / 50
Current consumption [A]	0.713	1.247	1.247	1.5	2.7
Max. oil consumption [l/h]	1.2	2.4	4	4.8	9.5
Outlet nozzle / hose connection ø [mm]	–	–	–	–	–
Chimney connection ø [mm]	–	–	–	–	–
Integrated thermostat	Series	Series	Series	Series	Series
Connection for external thermostat	Series	Series	Series	Series	Series
Fuel feed	Compressor	Compressor	Compressor	Compressor	Danfoss® pump
Fuel filter	–	–	–	–	Series
Tank capacity [l]	12	19	38	56	69
Sound level (distance 1 m) [dB(A)]	80	80	90	70	84
Length [mm] ³	650	830	915	1,060	1,210
Width [mm]	265	430	515	530	582
Height [mm]	395	560	640	710	718
Weight [kg]	10	17.5	21.94	27.5	41
					
Available accessories	IDE 20 D	IDE 30 D	IDE 50 D	IDE 60 D	IDE 100 D
External thermostat with 25 m cable	Article no. 6.100.006.113	Article no. 6.100.006.113	Article no. 6.100.006.113	Article no. 6.100.006.113	Article no. 6.100.006.113
Connection kit for external oil tank	–	Article no. 6.100.006.183	Article no. 6.100.006.183	Article no. 6.100.006.183	Article no. 6.100.006.183
Adapter set tank set-oil hose	–	Article no. 7.210.000.003	Article no. 7.210.000.003	Article no. 7.210.000.003	Article no. 7.210.000.003
Tank line with quick couplings, length 5 m	–	Article no. 6.100.006.037 ⁴			
Fuel tank	1,000 litres ⁶	Article no. 6.100.006.011	Article no. 6.100.006.011	Article no. 6.100.006.011	Article no. 6.100.006.011
	3,000 litres ⁶	–	Article no. 6.100.006.012	Article no. 6.100.006.012	Article no. 6.100.006.012

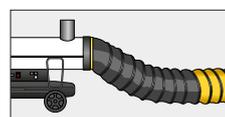
¹ ΔT marks the temperature increase.
The outlet air temperature is calculated from ΔT + ambient temperature.
Example calculation for IDE 50 oil heater fan at an ambient temperature of 20 °C: ΔT (62) + 20 = 82.
Thus, the example gives an outlet air temperature of 82 °C.;

² optionally available accessories by request; ³ mounted;

⁴ in conjunction with adapter set tank set-oil hose (required accessories)

⁵ more air transport hoses you can find at page 150 of the catalogue;
Important: The hose usable length of a forementioned device is for max. 4 m restricted!

Tronec hoses with standard usable length of 7,6 m lead to forced switch-off and have to be shortened from the used side of max. 4 m.



Note: Only the black 2 m neoprene part of the Tronec SP-C combination hose is designed for the high outlet air temperatures at the oil heaters' hose connection.
Therefore, only connect the black neoprene hose end directly to the heater!

⁶ These fuel tanks can be found starting on catalogue page 144.