

Rittal – The System.

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► TopTherm Chiller



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FRIEDHELM LOH GROUP

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Standardized modular design for quick availability





Control module

- One version for two frequencies 400 V/50 Hz, 460 V/60 Hz
- Temperature control by way of fixed or differential values, switchable.



Chiller module

- Air intake at rear, optionally also on left or right for the 8, 12, and 16 kW versions
- Refrigerant R410A
- Simple exchanging of modules with different outputs



Water module

- Water bypass as standard
- Flow monitor as standard
- Simple exchanging of modules of different outputs





Advantages

- Modular design
- Small footprint
- Convenient servicing
- High reliability thanks to icing protection
- Dual frequencies for international compatibility
- Base platform readily available from stock

Temperature control:

- Microcontroller control (factory setting +18°C, differential valve control also possible)

Color:

- RAL 7035

Protection category IP to

IEC 60 529:

- IP 44 (electrics)

Supply includes:

- Complete unit with side panels and door ready for connection
- Multilingual documentation including functional diagram and wiring plans

Note:

- For 3335.880 and 3335.890, two metal filters are required

Characteristic curves of pump:

Available on the Internet

Approvals:

Available on the Internet

Technical details:

Available on the Internet

Power category 27297—54594 BTU (8000—16000 W)

Model No.	3335.790	3335.830	3335.840	3335.850	3335.860	3335.870	3335.880	3335.890
Total cooling output at Tw = 50°F/Tu = 90°F BTU (kW)	22179/25591 (6.5/7.5)	22179/25591 (6.5/7.5)	35145/38557 (10.3/11.3)	47088/51865 (13.8/15.2)	56642/63807 (16.6/18.7)	70973/ 81209 (20.8/23.8)	92128/103729 (27/30.4)	110895/127955 (32.5/37.5)
Total cooling output at Tw = 64°F/Tu = 90°F BTU (kW)	27297/29344 (8/8.6)	27297/29344 (8/8.6)	40946/44699 (12/13.1)	54594/60054 (16/17.6)	68243/74385 (20/21.8)	85304/94175 (25/27.6)	109189/120107 (32/35.2)	136486/150134 (40/44)
Rated power PeI 50/60 Hz BTU (kW)	14911/17777 (4.37/5.21)	14911/17777 (4.37/5.21)	22520/26478 (6.6/7.76)	24909/31392 (7.3/9.2)	31392/40946 (9.2/12)	38898/47429 (11.4/13.9)	51012/60054 (14.95/17.6)	61111/78820 (17.91/23.1)
Rated operating voltage V, -, Hz	400, 3-, 50 460, 3-, 60	400, 3-, 50 460, 3-, 60	400, 3-, 50 460, 3-, 60	400, 3-, 50 460, 3-, 60	400, 3-, 50 460, 3-, 60	400, 3-, 50 460, 3-, 60	400, 3-, 50 460, 3-, 60	400, 3-, 50 460, 3-, 60
Height inches (mm)	67 (1700)	83 (2100)	84 (2140)	84 (2140)	84 (2140)	84 (2140)	84 (2140)	84 (2140)
Width inches (mm)	32 (805)	32 (805)	32 (805)	32 (805)	47 (1205)	47 (1205)	63 (1605)	95 (2405)
Depth inches (mm)	24 (605)	24 (605)	24 (605)	24 (605)	24 (605)	24 (605)	24 (605)	24 (605)
Rated current max. A	8.2/7.7	8.2/7.7	10/11.4	12.7/13.3	20.1/17.3	22.8/23.8	26.3/26.7	38.4/32.7
Operating temperature range	+50°F...+109°F	+50°F...+109°F	+50°F...+109°F	+50°F...+109°F	+50°F...+109°F	+50°F...+109°F	+50°F...+109°F	+50°F...+109°F
Refrigerant	R410a	R410a	R410a	R410a	R410a	R410a	R410a	R410a
Water connection	1" internal thread	■	■	■	■	■	–	–
	1 1/4" internal thread	–	–	–	–	–	■	■
Temperature hysteresis	+/- 2 K	+/- 2 K	+/- 2 K	+/- 2 K	+/- 2 K	+/- 2 K	+/- 2 K	+/- 2 K
Liquid temperature	+50°F...+77°F	+50°F...+77°F	+50°F...+77°F	+50°F...+77°F	+50°F...+77°F	+50°F...+77°F	+50°F...+77°F	+50°F...+77°F
Tank capacity gal (l)	19.8 (75)	19.8 (75)	19.8 (75)	19.8 (75)	39.6 (150)	39.6 (150)	19.8 (75)	39.6 (150)
Weight lb (kg)	546.7 (248.0)	546.7 (248.0)	621.7 (282.0)	621.7 (282.0)	793.7 (360.0)	824.5 (374.0)	1126.6 (511.0)	1424.2 (646.0)

TopTherm Chiller



**Chiller module
with air intake from the left**

The variable air intake location allows the chiller to be used in many different application environments



**Chiller module
with air intake from the rear**



**Chiller module
with air intake from the right**



Enclosure suits

Two modules can be combined into a suite to double the cooling capacity. Integration into existing enclosure suites is possible.

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