

DUAL-DISCHARGE UNIT COOLER INDUSTRIAL RANGE

Hard Discount - Supermarkets - Hypermarkets
Refrigerated storage and transit stocking - Dispatch centres
Food processing - Canteen kitchens



GTA / GTA-W

GTI / GTI-W



11 > 82 kW

GTI / GTA

Direct expansion industrial range GTI / GTA

Glycol water industrial range GTI-W / GTA-W

- The GTI and GTA ranges meet the workplace comfort requirements for laboratories, meat cutting rooms, air locks, etc...
- Exceptionally low noise levels with the 8P (GTI) and EC motor (GTA) models.
- The low air flow speed guarantees comfort as well as accurate control of both temperature and hygrometry for the 8P models.
- The 2-speed electric fans guarantee appropriate noise levels and ventilation (GTA).

* Operating pressure 50 bar



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FRIGA-BOHN

HK[®]
REFRIGERATION

DESCRIPTION

Casing

- The GTI (-W) and GTA (-W) casing is made of white pre-painted galvanized steel.
- On the GTA (-W), each removable drain pan (in 1 or 2 sections depending on the models) are fixed or hinged (**BCS** option). The condensate is evacuated via 2 large dimension drain pipes.
- GTI (-W) and GTA (-W) models are foreseen with end covers.
- GTI (-W) and GTA (-W) are delivered on a wooden base.
- GTA (-W) are delivered in their mounting position and designed for installation flush to the ceiling.

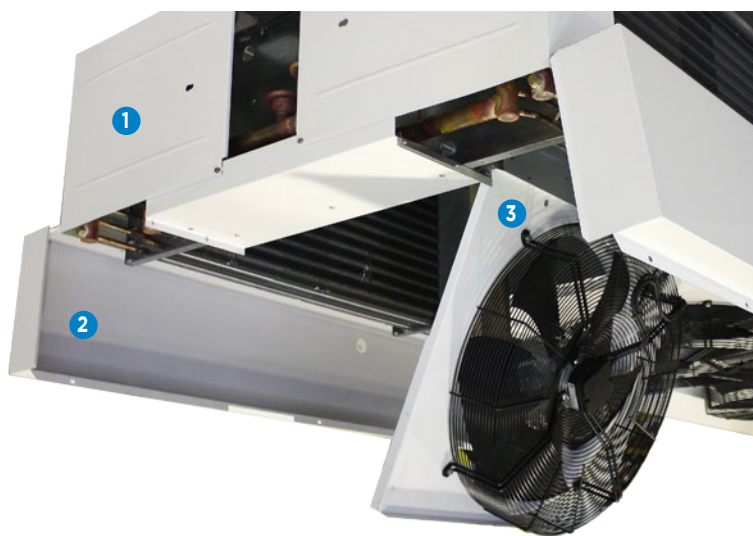
Ventilation

- The GTI (-W) unit cooler range is equipped with fans Ø 450 mm, 230-400 V/3/50 Hz: **4P** = 1,500 rpm - **6P** = 1,000 rpm - **8P** = 750 rpm
- The GTA (-W) unit cooler range is equipped with fans Ø 630 mm, 400 V/3/50 Hz, IP 54, class F, with incorporated thermal overload protection, 2 speeds depending on models: **4P** = 1330 rpm - **6/8P** = 890 / 690 rpm.
- Fan guards are compliant with safety standards.

Coil

- **The GTA range is equipped with two new coil configurations optimized for direct expansion and glycol water applications.**
- The highly-efficient and compact standard finned coils of the GTI (-W) and GTA (-W) range are composed of aluminium fins with a spacing of 4.23 or 6.35 mm.

CERTIFICATIONS



ADVANTAGES

Installation

The GTA (-W) are equipped with easily removable doors **1** thus providing easy access to electrical and coolant connections.

The GTA are supplied in assembly position.

Possibility of supplying a connection kit (option **EGK**) for the glycol water model to render installation easier.

Servicing / Maintenance

For all work on the GTA (-W), access to the drain pans does not require removal of the recovery vessel **2** and the fan units are mounted on an articulated panel **3** rendering maintenance work easier.

DESIGNATION

GTI⁽¹⁾ **-W**⁽²⁾ **34**⁽³⁾ **4**⁽⁴⁾ **4P**⁽⁶⁾
GTA⁽¹⁾ **-W**⁽²⁾ **36**⁽³⁾ **R**⁽⁵⁾ **6D**⁽⁷⁾

- (1) **GTI / GTA**: Direct expansion unit cooler
- (2) **W**: Glycol water unit cooler
- (3) Model
- (4) Fin spacing: **4** = 4.23 mm - **7** = 6,35 mm
- (5) Fin spacing: **R** = 4.23 mm - **L** = 6,35 mm
- (6) **4P** = 1,500 rpm - **6P** = 1,000 rpm - **8P** = 750 rpm
- (7) **4D** = Delta connection - 1,330 rpm
6D = Delta connection - 890 rpm
6Y = Star connection - 690 rpm

Kit Factory

OPTIONS

Ventilation - GTI / GTI-W

M60 Fans 230-400V/3/50-60Hz (adapted fan blades).

Ventilation - GTA / GTA-W

- EC1** EC motors 400V/3/50-60Hz.
- EC2** EC motors 230V/1/50-60Hz.
- C3V** 3-speed selector switch (motors EC1 and EC2).
- CMU** Motors factory wired.
- M60** Fans 400V/3/50-60Hz (adapted fan blades).

Coil

- BAE** Protection of fins.
- BHE** Heresite coil protection.
- BXT** Blygold Polual XT coil protection.
- WCO** Glycol water, coolant (please contact us for details).
- CO2** R744 optimization (please contact us for details).

EGK Glycol water and coolant extension.

Defrost - GTI / GTI-W

- EIU** Light electric defrost.
- HGB** Hot gas defrost (coil only).

Defrost - GTA / GTA-W

- EIU** Light electric defrost.
- ELU** Electric defrost (coil + drain pan).
- HG1** Defrost with hot gas (coil: hot gas, drain pan: heating elements).
- EEK** Drain pan electric defrost.
- ECK** **ECU** Additional coil electric defrost.

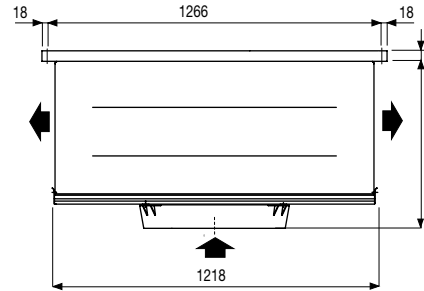
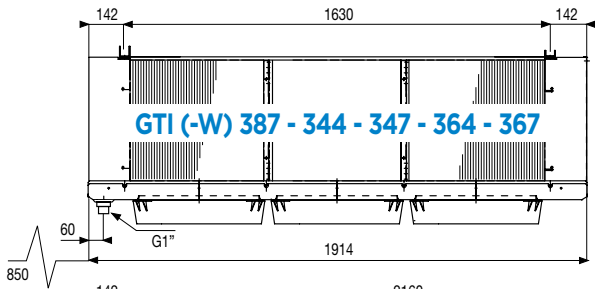
Miscellaneous

- BCS** Hinged condensate tray (**GTA / GTA-W**).
- CIN** Stainless steel frame (**GTA / GTA-W**).
- ECB** Wooden crate packaging (**GTA / GTA-W**).
- EIS** Insulated drain pan.

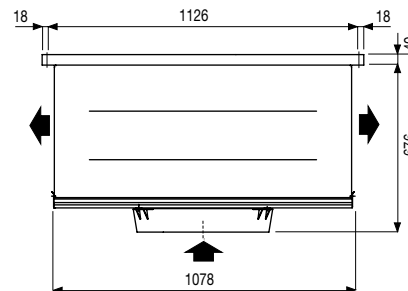
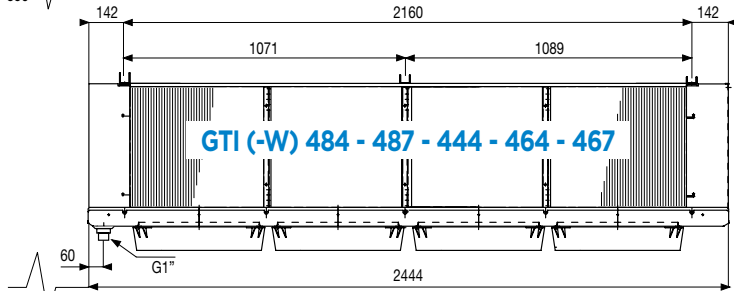
Other options

Please contact us for details.

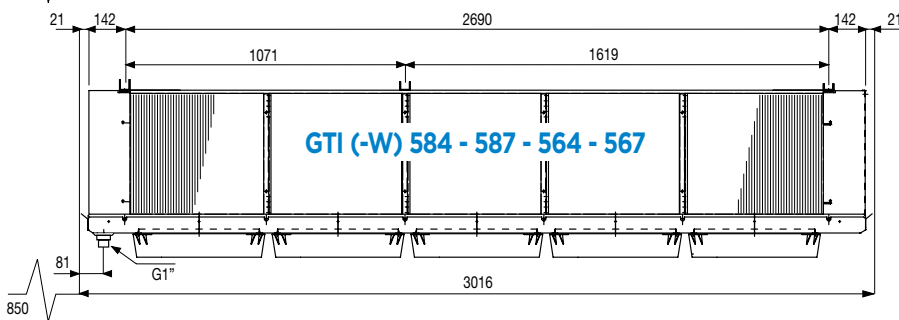
GTI / GTI-W



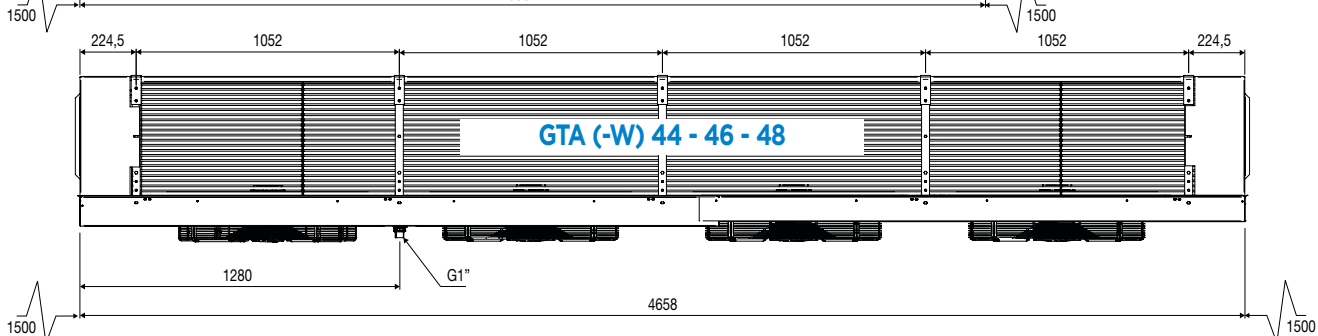
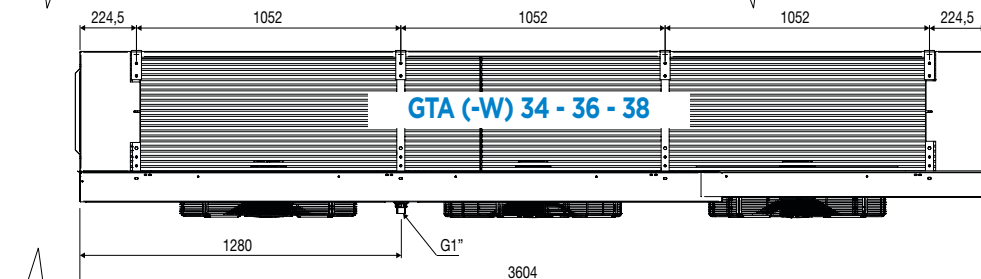
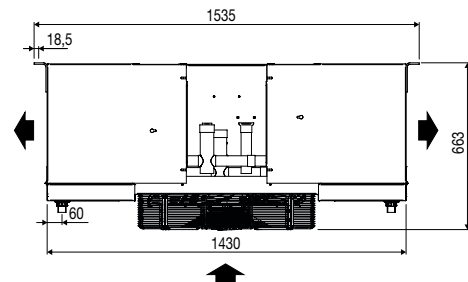
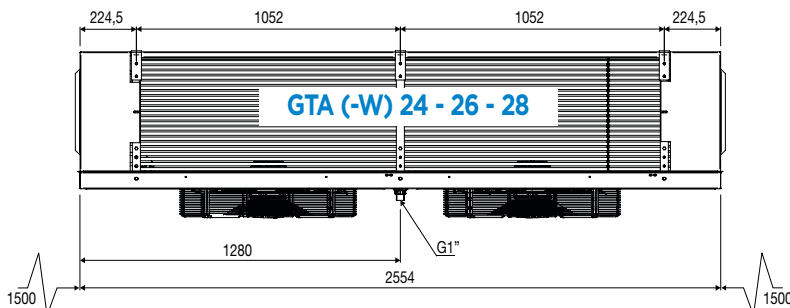
GTI (-W)
387
484 - 487
584 - 587



GTI (-W)
344 - 347
364 - 367
444 - 464 - 467
564 - 567



GTA / GTA-W



GTI (-W) ... 4/6/8P - 1,500/1,000/750 rpm.

4,23 mm

Direct expansion		GTI ... 4/6/8P	344	364	444	464	484	564	584
Capacity R404A (1)	DTI = 10 K - SC1	4P kW	33,7	42,5	45,2	57,7	66,3	68,8	73,2
		6P kW	27,8	34,5	37,6	46,1	51,8	55,8	60,2
		8P kW	23,5	28,0	32,1	37,5	40,8	45,6	49,7
	DTI = 8 K - SC2	4P kW	20,4	25,6	27,9	34,8	36,1	42,0	47,3
		6P kW	16,4	19,8	22,2	26,8	27,8	32,7	35,9
		8P kW	13,3	15,5	17,9	20,8	21,4	25,7	27,6
Capacity CO ₂ (7)	DTI = 8 K - SC2	4P kW	22,5	29,5	32,2	37,7	42,9	48,7	51,7
		6P kW	18,2	22,5	25,4	29,2	31,9	37,3	39,0
		8P kW	14,8	17,4	20,3	22,9	24,2	29,0	29,9

Glycol water		GTI-W ... 4/6/8P	344	364	444	464	484	564	584
Capacity W*	DTI = 8 K	4P kW	19,5	26,0	24,0	32,4	45,0	40,5	48,5
		6P kW	16,5	21,6	20,7	28,9	33,5	33,9	39,6
		8P kW	14,9	18,8	19,0	24,0	28,0	31,3	34,1

		GTI (-W) ... 4/6/8P	344	364	444	464	484	564	584	
Surface		m ²	98,3	147,5	131,1	196,7	262,3	245,9	327,8	
Circuit volume		dm ³	19,1	28,6	25,5	38,2	50,9	47,7	63,6	
Fan **	Air flow	4P m ³ /h	13950	13350	18600	17800	17000	22250	21250	
		6P m ³ /h	9360	8960	12480	11950	11410	14930	14260	
		8P m ³ /h	6670	6390	8900	8500	8130	10650	10170	
	Air throw (2)	4P m	2 x 7	2 x 7	2 x 7	2 x 7	2 x 7	2 x 7	2 x 7	
		6P m	2 x 5	2 x 5	2 x 5	2 x 5	2 x 5	2 x 5	2 x 5	
		8P m	2 x 4	2 x 4	2 x 4	2 x 4	2 x 4	2 x 4	2 x 4	
	Ø 450 mm	Nb	3	3	4	4	4	5	5	
Acoustic	Lp 4m (3)	4P dB(A)	50	50	51	51	51	52	52	
		6P dB(A)	40	40	41	41	41	42	42	
		8P dB(A)	33	33	34	34	34	35	35	
Electric defrost EIU	Ω	Nb	6	6	6	6	6	6	6	
		400 V/3/50 Hz	W Total	6000	6000	9240	9240	9240	12000	12000
			A Total	9	9	14	14	14	18	18
Connections R404A	Inlet	Ø (5)	7/8"	1"1/8	1"1/8	1"1/8	1"1/8	1"1/8	1"3/8	
	Outlet	Ø (6)	1"5/8	1"5/8	2"1/8	2"1/8	2"1/8	2"5/8	2"5/8	
Net weight		kg	181	215	228	264	307	326	379	

** Ø 450 mm - 230-400 V/3/50 Hz. 4P : 360 W max - 1 A max (4). 6P : 115 W max - 0,6 A max (4). 8P : 72 W max - 0,4 A max (4).

(1) Standard conditions (Eurovent) : SC1 / +10°C (air inlet temp.) / 0 °C (evaporating temp.) / DTI = 10K - SC2 / 0°C (air inlet temp.) / -8°C (evaporating temp.) / DTI = 8K

(2) Residual air speed: 0.25 m/s, in compliance with standard.

(3) Average sound pressure level in dB(A) measured at 4 m, at fan height, in direct line of sight on a reflective surface, given for information only.

(4) Setting of overload protection levels.

(5) Distributor: Male to be brazed.

(6) ODF = Female to receive a tube of the same diameter.

(7) Operating pressure 50 bar - Tube diameter to define the order.

* Glycol water - Capacity indicated for information only under the following conditions:

Fluid: Percentage of glycol = 30 %
Fluid inlet temperature = - 8°C
Fluid outlet temperature = - 4°C.

Air: Inlet dry temperature = + 2°C
Relative humidity = 85 %
Limitation of head loss at 10 m WC maximum.

Other conditions:

Possible optimization of exchanger circuiting according to the operating level.
System head loss taken into account, percentage of glycol,... (please contact us for details).

Connection kit available:

- 1 kit for horizontal connection (please consult us).
- 4 connection kits (please consult us).
 - steel weld-on sleeve
 - steel screw-on sleeve
 - steel weld-on sleeve
 - steel screw-on sleeve

M60	BAE	BXT	WCO	CO ₂	EIK	EIU	HGB	EGK	EIS
0	 + 	0	 + 	 + 	0	0	0	0	0

