

Dual-discharge unit cooler



TA commercial range

- The 40 models in the TA range meet the requirements of laboratories, cutting and work areas, air locks, etc...
- Exceptionally low noise levels with the 6 or 8-pole models.
- The low air flow speed guarantees comfort as well as accurate control of both temperature and hygrometry.
- Optimised air throw up to 12 m.
- Sturdy and corrosion-resistant unit, coils totally anti-corrosion treated as standard, ABS casing and stainless steel screws.
- An intermediate drain pan avoids condensation on the casing.



Reduced sound
Natural fluids:
Glycol water, CO₂ (R744)*



* Chill applications - Operating pressure 50 bar

2 22 kW

TA - Commercial dual-discharge unit cooler

Market segments



FFS Bars - Restaurants - Corner shops - Mini-markets
FSM Hard Discount - Supermarkets - Hypermarkets

Description

Casing

Aesthetics and accessibility

The recyclable ABS casing of the TA guarantees a high level of quality and finish.

Sturdiness

Highly resistant to thermal shocks.

Aesthetics

The TA unit blends easily into its surroundings thanks to the casing with integrated fan guard.

Hygiene

Rounded corners eliminate condensate retention zones which favour the development of harmful germ, use of protected steel sheets and stainless steel screws. Internal drain pans to avoid condensation on the casing.

Safety

No sharp or cutting edges.

Ventilation

- The TA range is equipped with bell mounted electric fans Ø 350 mm.
- The motors are of the enclosed type, single-phase with a capacitor, 230 V, 50-60 Hz, IP 55, class F and internal overload protection.
- Available in the following versions: 4-pole = 1,500 rpm, 6-pole = 1,000 rpm or 8-pole = 750 rpm, depending upon the admissible noise level.
- The fan guards, incorporated into the casing, are compliant with safety standards.

Coil

- The highly efficient and compact TA range finned coils are designed with corrugated aluminium fins (fin spacing 3.63 or 6.35 mm) and internally grooved copper tubes.
- The coils are supplied via a Venturi distributor.

Certifications



Advantages

Installation

Simple installation and commissioning with easy access to the expansion valve (see photo).

A condensation evacuation pump may be provided factory-mounted in the casing to help reduce installation time (option **PRK**).

Evacuation of condensation on left or right side.

Servicing / Maintenance

Hinged drain pan offering easy access to all components (see photo).

The electric heating elements fitted in slots under the coil considerably simplify maintenance tasks (see photo).

Designation

TA 5⁽¹⁾ R⁽²⁾ 6P⁽³⁾

(1) Model

(2) Fin spacing: **R** = 3.63 mm – **L** = 6.35 mm

(3) **4P** = 1,500 rpm, **6P** = 1,000 rpm or **8P** = 750 rpm



Kit	Factory	Options
		Coil
	BAE	Paint 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).
		Defrost
	HGB	Hot gas coils.
E1K	E1U	Light electric defrost.
2TH		TH 5709L : end of defrost thermostat with single-pole, reversing switch at +12 °C (±3 °C) and delayed fan start up +2 °C (±3 °C). THS 5708L : single-pole thermostat for overheating protection set at +24 °C (±3 °C). Recommended with electric defrost.
		Fully equipped unit coolers
PRK		Condensate discharge pump.
	DM	Expansion valve fitted.
	EEC	Fully equipped unit cooler: - Expansion valve fitted. - Solenoid valve fitted. - Ball valve fitted. - Piping pre-fitted with a ball valve (siphoning function provided by the collector).

TA ... R 4P - 1,500 rpm

3,63 mm

		TA ... R 4P	1	2	3	4	5	6	7
Capacity R404A (1)	DT1 = 10 K - SC 1	kW	5,20	7,97	9,87	10,78	14,97	18,34	21,86
	DT1 = 8 K - SC 2	kW	3,38	5,31	6,53	7,00	9,93	12,18	14,42
Acoustic	Lp 4 m (2)	dB(A)	39	42	42	42	44	44	45
Surface		m ²	15,23	15,23	22,84	30,45	34,26	57,10	60,91
Circuit volume		dm ³	2,23	2,23	3,35	4,46	5,02	8,36	8,92
		Nb	1	2	2	2	3	3	4
Fan Ø 350 mm 230 V/1/50-60 Hz	Air flow	m ³ /h	1995	4390	4170	3985	6255	5755	7975
	Air throw (3)	m	2 x 10	2 x 12	2 x 11	2 x 10	2 x 11	2 x 10	2 x 10
	230 V/1/50 Hz	W max	1 x 220	2 x 220	2 x 220	2 x 220	3 x 220	3 x 220	4 x 220
		A max	1 x 1,10	2 x 1,10	2 x 1,10	2 x 1,10	3 x 1,10	3 x 1,10	4 x 1,10
Electric defrost E1K (4)	230 V/1/50 Hz	W total	800	800	1200	1600	1800	3000	3200
		A total	3,5	3,5	5,2	7,0	7,8	13,0	14,0
	400 V/3/50 Hz	W total	-	-	-	-	-	3000	3200
		A total	-	-	-	-	-	6,5	6,9
Net weight		kg	22,6	24,5	27,6	32,9	36,4	45,3	54,7

TA ... L 4P - 1,500 rpm

6,35 mm

		TA ... L 4P	1	2	3	4	5	6	7
Capacity R404A (1)	DT1 = 10 K - SC 1	kW	4,48	7,30	8,53	9,27	10,26	14,92	18,84
	DT1 = 8 K - SC 2	kW	2,92	4,89	5,66	6,08	6,75	10,01	12,45
Capacity W*	DT1 = 10 K (a)	kW	4,83	-	-	9,84	-	15,62	20,02
	DT1 = 8 K (b)	kW	3,14	-	-	6,50	-	10,53	13,20
Acoustic	Lp 4 m (2)	dB(A)	39	42	42	42	44	44	45
Surface		m ²	11,33	13,60	18,13	22,66	20,40	33,99	45,32
Circuit volume		dm ³	2,79	3,35	4,46	5,58	5,02	8,36	11,15
		Nb	1	2	2	2	3	3	4
Fan Ø 350 mm 230 V/1/50-60 Hz	Air flow	m ³ /h	2025	4345	4185	4045	6515	6070	8095
	Air throw (3)	m	2 x 11	2 x 12	2 x 11	2 x 11	2 x 12	2 x 11	2 x 11
	230 V/1/50 Hz	W max	1 x 220	2 x 220	2 x 220	2 x 220	3 x 220	3 x 220	4 x 220
		A max	1 x 1,10	2 x 1,10	2 x 1,10	2 x 1,10	3 x 1,10	3 x 1,10	4 x 1,10
Electric defrost E1K (4)	230 V/1/50 Hz	W total	800	800	1200	1600	1800	3000	3200
		A total	3,5	3,5	5,2	7,0	7,8	13,0	14,0
	400 V/3/50 Hz	W total	-	-	-	-	-	3000	3200
		A total	-	-	-	-	-	6,5	6,9
Net weight		kg	21,1	26,9	29,6	32,2	35,3	43,6	58,1

		TA ... 4P	1	2	3	4	5	6	7
Dimensions	A	mm	872	1372	1372	1372	1872	1872	2372
	H	mm	17,5	17,5	17,5	17,5	35	35	35
	X	mm	560	1060	1060	1060	1560	1560	2060
Connections R404A	Inlet	Ø (5)	D 5/8"	D 5/8"	D 5/8"	D 5/8"	D 5/8"	D 5/8"	D 5/8"
	Outlet	Ø ODF (6)	5/8"	5/8"	7/8"	7/8"	7/8"	1 1/8"	1 1/8"

(1) See page 10.

(2) 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.

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

(4) Electric defrost option.

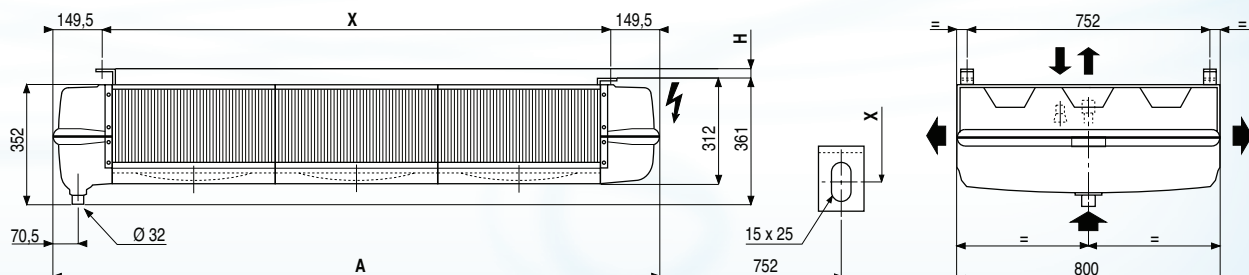
(5) Distributor: 5/8" to be brazed.

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

* Glycol water:

(a) EG Percent. glycol = 30% - Fluid inlet temp. = -2°C - Fluid outlet temp. = +2°C
Inlet dry temp. = +10°C - relative humidity = 85%(b) EG Percent. glycol = 30% - Fluid inlet temp. = -8°C - Fluid outlet temp. = -4°C
Inlet dry temp. = +2°C - relative humidity = 85%

Other conditions: please contact us.



BAE

BXT

WCO

CO2

PRC

HGB

E1K

E1U

2TH

DM

EEC

0

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+

-

0

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0

0

0

0

0

TA ... R 6P - 1,000 rpm

3,63 mm

		TA ... R 6P	1	2	3	4	5	6	7
Capacity R404A (1)	DT1 = 10 K - SC 1	kW	3,93	6,09	7,46	8,06	11,26	13,21	16,32
	DT1 = 8 K - SC 2	kW	2,61	4,09	4,99	5,37	7,55	8,89	10,90
Acoustic	Lp 4 m (2)	dB(A)	29	32	32	32	34	34	35
Surface		m ²	15,23	15,23	22,84	30,43	34,26	57,10	60,91
Circuit volume		dm ³	2,23	2,23	3,35	4,46	5,02	8,36	8,92
		Nb	1	2	2	2	3	3	4
Fan Ø 350 mm 230 V/1/50-60 Hz	Air flow	m ³ /h	1310	2910	2750	2615	4125	3765	5230
	Air throw (3)	m	2 x 7	2 x 7	2 x 7	2 x 7	2 x 7	2 x 6	2 x 7
	230 V/1/50 Hz	W max	1 x 120	2 x 120	2 x 120	2 x 120	3 x 120	3 x 120	4 x 120
		A max	1 x 0,60	2 x 0,60	2 x 0,60	2 x 0,60	3 x 0,60	3 x 0,60	4 x 0,60
Electric defrost E1K (4)	230 V/1/50 Hz	W total	800	800	1200	1600	1800	3000	3200
		A total	3,5	3,5	5,2	7,0	7,8	13,0	14,0
	400 V/3/50 Hz	W total	-	-	-	-	-	3000	3200
		A total	-	-	-	-	-	6,5	6,9
Net weight		kg	22,6	24,5	27,6	32,9	36,4	45,3	54,7

TA ... L 6P - 1,000 rpm

6,35 mm

		TA ... L 6P	1	2	3	4	5	6	7
Capacity R404A (1)	DT1 = 10 K - SC 1	kW	3,43	5,55	6,47	7,01	8,02	10,98	14,18
	DT1 = 8 K - SC 2	kW	2,28	3,76	4,35	4,67	5,35	7,45	9,53
Capacity W*	DT1 = 10 K (a)	kW	3,30	-	-	8,09	-	12,48	16,40
	DT1 = 8 K (b)	kW	2,60	-	-	5,30	-	8,36	10,76
Acoustic	Lp 4 m (2)	dB(A)	29	32	32	32	34	34	35
Surface		m ²	11,33	13,60	18,13	22,66	20,40	33,99	45,32
Circuit volume		dm ³	2,79	3,35	4,46	5,58	5,02	8,36	11,15
		Nb	1	2	2	2	3	3	4
Fan Ø 350 mm 230 V/1/50-60 Hz	Air flow	m ³ /h	1330	2875	2760	2660	4315	3990	5315
	Air throw (3)	m	2 x 7	2 x 7	2 x 7	2 x 7	2 x 7	2 x 7	2 x 7
	230 V/1/50 Hz	W max	1 x 120	2 x 120	2 x 120	2 x 120	3 x 120	3 x 120	4 x 120
		A max	1 x 0,60	2 x 0,60	2 x 0,60	2 x 0,60	3 x 0,60	3 x 0,60	4 x 0,60
Electric defrost E1K (4)	230 V/1/50 Hz	W total	800	800	1200	1600	1800	3000	3200
		A total	3,5	3,5	5,2	7,0	7,8	13,0	14,0
	400 V/3/50 Hz	W total	-	-	-	-	-	3000	3200
		A total	-	-	-	-	-	6,5	6,9
Net weight		kg	21,1	26,9	29,6	32,2	35,3	43,6	58,1

		TA ... 6P	1	2	3	4	5	6	7
Dimensions	A	mm	872	1372	1372	1372	1872	1872	2372
	H	mm	17,5	17,5	17,5	17,5	35	35	35
	X	mm	560	1060	1060	1060	1560	1560	2060
Connections R404A	Inlet	Ø (5)	D 5/8"	D 5/8"	D 5/8"	D 5/8"	D 5/8"	D 5/8"	D 5/8"
	Outlet	Ø ODF (6)	5/8"	5/8"	7/8"	7/8"	7/8"	1 1/8"	1 1/8"

(1) See page 10.

(2) 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..

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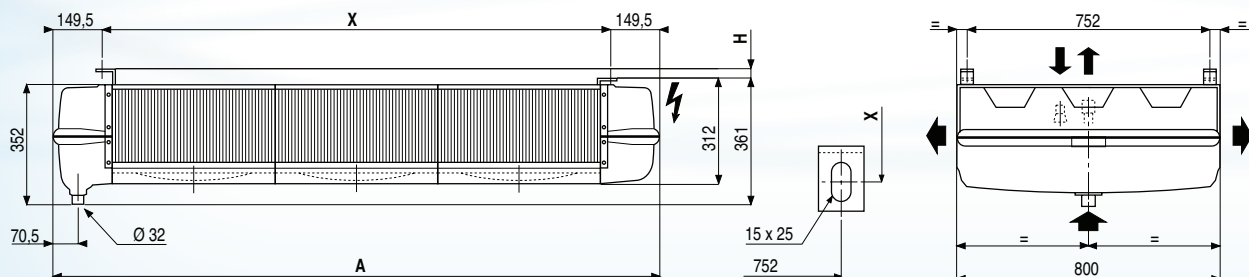
(5) Distributor: 5/8" to be brazed.

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

* Glycol water:

(a) EG Percent. glycol = 30% - Fluid inlet temp. = -2°C - Fluid outlet temp. = +2°C
Inlet dry temp. = +10°C - relative humidity = 85%(b) EG Percent. glycol = 30% - Fluid inlet temp. = -8°C - Fluid outlet temp. = -4°C
Inlet dry temp. = +2°C - relative humidity = 85%

Other conditions: please contact us.



BAE

BXT

WCO

CO2

PRC

HGB

E1K

E1U

2TH

DM

EEC

0

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TA ... R 8P - 750 rpm

3,63 mm

		TA ... R 8P	1	2	3	4	5	6	7
Capacity R404A (1)	DT1 = 10 K - SC 1	kW	3,29	5,08	6,21	6,70	9,35	10,69	13,49
	DT1 = 8 K - SC 2	kW	2,20	3,42	4,18	4,50	6,32	7,33	9,13
Capacity CO ₂	DT1 = 8 K - SC 2	kW	2,04	2,77	3,58	4,12	5,37	6,54	7,94
Acoustic	Lp 4 m (2)	dB(A)	22	25	25	25	27	27	28
Surface		m ²	15,23	15,23	22,84	30,45	34,26	57,10	60,91
Circuit volume		dm ³	2,23	2,23	3,35	4,46	5,02	8,36	8,92
		Nb	1	2	2	2	3	3	4
Fan Ø 350 mm 230 V/1/50-60 Hz	Air flow	m ³ /h	945	2100	1980	1895	2975	2730	3785
	Air throw (3)	m	2 x 5	2 x 6	2 x 5	2 x 5	2 x 5	2 x 5	2 x 5
230 V/1/50 Hz	W max		1 x 90	2 x 90	2 x 90	2 x 90	3 x 90	3 x 90	4 x 90
	A max		1 x 0,40	2 x 0,40	2 x 0,40	2 x 0,40	3 x 0,40	3 x 0,40	4 x 0,40
Electric defrost E1K (4)	230 V/1/50 Hz	W total	800	800	1200	1600	1800	3000	3200
		A total	3,5	3,5	5,2	7,0	7,8	13,0	14,0
400 V/3/50 Hz	W total		-	-	-	-	-	3000	3200
	A total		-	-	-	-	-	6,5	6,9
Net weight		kg	22,6	24,5	27,6	32,9	36,4	45,3	54,7

TA ... L 8P - 750 rpm

6,35 mm

		TA ... L 8P	1	-	3	4	5	6	7
Capacity R404A (1)	DT1 = 10 K - SC 1	kW	2,88	-	5,40	5,86	6,79	-	11,84
	DT1 = 8 K - SC 2	kW	1,93	-	3,66	3,96	4,55	-	8,00
Capacity CO ₂	DT1 = 8 K - SC 2	kW	1,83	-	3,28	3,69	4,12	-	7,12
Capacity W*	DT1 = 10 K (a)	kW	3,34	-	-	6,77	-	8,51	13,66
	DT1 = 8 K (b)	kW	2,20	-	-	4,50	-	7,27	9,06
Acoustic	Lp 4 m (2)	dB(A)	22	-	25	25	27	27	28
Surface		m ²	11,33	-	18,13	22,66	20,40	33,99	45,32
Circuit volume		dm ³	2,79	-	4,46	5,58	5,02	8,36	11,15
		Nb	1	-	2	2	3	3	4
Fan Ø 350 mm 230 V/1/50-60 Hz	Air flow	m ³ /h	960	-	1990	1920	3110	2890	3845
	Air throw (3)	m	2 x 5	-	2 x 5	2 x 5	2 x 6	2 x 5	2 x 5
230 V/1/50 Hz	W max		1 x 90	-	2 x 90	2 x 90	3 x 90	3 x 90	4 x 90
	A max		1 x 0,40	-	2 x 0,40	2 x 0,40	3 x 0,40	3 x 0,40	4 x 0,40
Electric defrost E1K (4)	230 V/1/50 Hz	W total	800	-	1200	1600	1800	3000	3200
		A total	3,5	-	5,2	7,0	7,8	13,0	14,0
400 V/3/50 Hz	W total		-	-	-	-	-	3000	3200
	A total		-	-	-	-	-	6,5	6,9
Net weight		kg	21,1	-	29,6	32,2	35,3	43,6	58,1

		TA ... 8P	1	2	3	4	5	6	7
Dimensions	A	mm	872	1372	1372	1372	1872	1872	2372
	H	mm	17,5	17,5	17,5	17,5	35	35	35
	X	mm	560	1060	1060	1060	1560	1560	2060
Connections R404A	Inlet	Ø (5)	D 5/8"	D 5/8"	D 5/8"	D 5/8"	D 5/8"	D 5/8"	D 5/8"
	Outlet	Ø ODF (6)	5/8"	5/8"	7/8"	7/8"	7/8"	1 1/8"	1 1/8"
Connections CO ₂	Inlet	Ø (5)	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
	Outlet	Ø ODF (6)	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"

(1) See page 10.

(2) 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.

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

(4) Electric defrost option.

(5) Distributor: Male to be brazed.

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

* Glycol water:



(a) EG Percent. glycol = 30% - Fluid inlet temp. = -2°C - Fluid outlet temp. = +2°C

Inlet dry temp. = +10°C - relative humidity = 85%

(b) EG Percent. glycol = 30% - Fluid inlet temp. = -8°C - Fluid outlet temp. = -4°C

Inlet dry temp. = +2°C - relative humidity = 85%

Other conditions: please contact us.

BAE	BXT	WCO	CO ₂	PRC	HGB	E1K	E1U	2TH	DM	EEC
0	0			0	0	0	0	0	0	0