



Centrifugal fan condenser

CCT range

- Centrifugal fans with available air pressure of up to 150 Pa.
- 2 blowing directions possible and 8 air inlet/outlet combinations.
- The unit may be removed (DEM option) for installation in difficult access zones.

Heatcraft reserves itself the right to make changes at any time without preliminary notice - Photos non-contractual



11  124 kW

FRIGA-BOHN



HK[®] REFRIGERATION

CCT - Centrifugal fan condenser

Market segments



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

Description

Casing

- The casing is made of galvanized sheet steel.
- All components of the CCT range are designed for exposure to adverse weather conditions.

Ventilation

- Centrifugal fans: available pressure of up to 150 Pascals, performance adapted.
- Fans of the direct-drive, "double inlet" type with a rotation speed of 1,000 rpm.
- Enclosed motors with incorporated thermal overload protection, 230V/1/50Hz (230-400V/3/50Hz for CCT 1x12T B2 - 1x12T B5 - 2x12T B5 - 3x12T B2 3x12T B5 - 4x12T B3 and 4x12T B5), IP 54, class F, permanently lubricated.
- Electrical connections factory-wired to an easily accessible switching box (three-phase motor: factory wired to 400V).
- In order to facilitate pressure control with fan stoppage, the turbines are separated with a baffle to avoid air by-pass.

Coil

- The condensers of the CCT range are equipped with a high efficiency coil composed of profiled aluminium fins spaced at 2.12 mm, crimped onto staggered copper tubes 3/8" (9.53 mm) to optimize the heat transfer coefficient.
- Brazed connections.
- Pressure tapping point.

Certifications



Range not concerned by Eurovent certification.

Advantages

Installation

For installations with difficult access, the condenser of the CCT range may be quickly removed and refitted on site.

Two installation positions, vertical air or horizontal air, with four blower outlet directions possible (to be specified when ordering):

V1, V2, V3, V4 or **H1, H2, H3, H4**

Possibility of modifying the air outlet position on site.

Servicing / Maintenance

Easy access to all components of the CCT range for commissioning, maintenance and cleaning.

Designation

CCT 1⁽¹⁾ x12T⁽²⁾ B2⁽³⁾

- (1) Number of centrifugal fans
- (2) **12T** = Three-phase - **10M** = Single-phase
- (3) Type of module



In order to facilitate pressure control with fan stoppage, the turbines are separated with a baffle to avoid air by-pass.

Kit	Factory	Options
		Casing
	UCC	Compressor casing (except CCT 3x12T B2 to CCT 4x12T B5).
	PEI	White paint.
	IPH	Noise insulation.
	FLA	Suction filters.
	DEM	Unit removal possible.
	ECB	Full crate packaging.
		Ventilation
	CMU	Motors factory wired.
VPS		Blower deflector vanes.
VVK	VVU	Speed controller.
		Coil
	MCI	Multi-circuits.
	BAE	Protected fins.
	BXT	Blygold Polual XT coil protection.
		Other options
		Please contact us for details.

CCT ...

	CCT ...	1x10M A3	1x10M B5	1x12T B2	1x12T B5	2x10M B5	2x12T B2	2x12T B5	3x12T B2	3x12T B5	4x12T B3	4x12T B5	
0 Pa (1) DT1 = 15 K (2) R404A	Capacity	kW	14,2	18,5	22,9	30,6	36,8	46,0	61,3	68,9	91,9	106,5	123,1
	Input power	kW	0,59	0,63	1,84	1,67	1,26	3,69	3,34	5,53	5,01	7,15	6,68
	Air flow	m³/h	3540	3630	7080	6660	7260	14160	13320	21240	19980	27790	26640
	Acoustic Lp (3)	dB(A)	43	43	53	52	46	56	55	58	57	59	58
	Acoustic Lw	dB(A)	75	75	85	84	78	88	87	90	89	91	90
50 Pa (1) DT1 = 15 K (2) R404A	Capacity	kW	13,7	17,8	22,4	29,4	35,6	44,9	58,4	67,4	87,5	103,4	117,3
	Input power	kW	0,54	0,58	1,73	1,53	1,15	3,47	3,07	5,20	4,60	6,67	6,14
	Air flow	m³/h	3340	3480	6820	6300	6960	13630	12610	20440	18910	26620	25210
	Acoustic Lp (3)	dB(A)	43	43	52	51	46	55	54	57	56	58	57
	Acoustic Lw	dB(A)	75	75	84	83	78	87	86	89	88	90	89
100 Pa (1) DT1 = 15 K (2) R404A	Capacity	kW	12,6	16,6	21,7	27,3	33,2	43,5	55,0	65,0	82,4	99,0	110,4
	Input power	kW	0,49	0,52	1,59	1,36	1,04	3,18	2,71	4,77	4,07	6,05	5,43
	Air flow	m³/h	3010	3210	6450	5800	6420	12900	11610	19360	17410	24970	23210
	Acoustic Lp (3)	dB(A)	41	41	52	50	44	55	53	56	55	58	56
	Acoustic Lw	dB(A)	73	73	84	82	76	87	85	88	87	90	88
150 Pa (1) DT1 = 15 K (2) R404A	Capacity	kW	11,3	14,6	20,4	25,0	29,2	40,9	49,7	61,4	74,5	91,5	99,7
	Input power	kW	0,43	0,45	1,39	1,15	0,90	2,77	2,29	4,16	3,44	5,18	4,59
	Air flow	m³/h	2590	2770	5890	5160	5540	11780	10310	17670	15470	22480	20630
	Acoustic Lp (3)	dB(A)	39	39	51	49	42	54	52	55	53	57	55
	Acoustic Lw	dB(A)	71	71	83	81	74	86	84	87	85	89	87

	CCT ...	1x10M A3	1x10M B5	1x12T B2	1x12T B5	2x10M B5	2x12T B2	2x12T B5	3x12T B2	3x12T B5	4x12T B3	4x12T B5	
Surface	m²	39,9	98,7	49,3	98,7	197,3	98,7	197,3	148,0	296,0	263,1	394,7	
Circuit volume	dm³	3,6	8,8	4,4	8,8	17,0	8,5	17,0	12,8	25,5	22,7	34,1	
Turbine	Nb	1	1	1	1	2	2	2	3	3	4	4	
	230V/1	W/u	670	670	-	-	670	-	-	-	-	-	
	50 Hz	A max/u	2,9	2,9	-	-	2,9	-	-	-	-	-	
	230-400V/3	W/u	-	-	2000	2000	-	2000	2000	2000	2000	2000	
	50 Hz	A max/u	-	-	3,3	3,3	-	3,3	3,3	3,3	3,3	3,3	
Net weight	kg	85	99	104	121	180	189	222	276	324	380	423	
M (4)		3	6	4	6	11	8	11	11	16	22	22	
Dimensions	A	mm	830	1150	1150	1150	2110	2110	2110	3070	3070	4030	4030
	B	mm	695	795	795	795	795	795	795	795	795	795	795
	C	mm	835	835	835	835	835	835	835	835	835	835	835
	D	mm	400	400	400	400	400	400	400	400	400	400	400
	E	mm	1235	1235	1235	1235	1235	1235	1235	1235	1235	1235	1235
	F	mm	1500	1600	1600	1600	1600	1600	1600	-	-	-	-
	G	mm	1530	1630	1630	1630	1630	1630	1630	-	-	-	-
	H	mm	725	825	825	825	825	825	825	825	825	825	825
	I (V)	mm	120	173	170	170	173	170	170	170	170	170	170
	I (H)	mm	94	97	94	94	97	94	94	94	94	94	94
	J	mm	290	290	342	342	290	342	342	342	342	342	342
	K	mm	331	331	395	395	331	395	395	395	395	395	395
	L	mm	250	410	377	377	410	377	377	377	377	377	377
	W	mm	725	825	825	825	825	825	825	825	825	825	825
	X	mm	735	1055	1055	1055	2015	2015	2015	2975	2975	3935	3935
Y	mm	900	900	900	900	900	900	900	900	900	900	900	
Z	mm	1575	1675	1675	1675	1675	1675	1675	-	-	-	-	
Inlet	Ø	7/8"	1 1/8"	1 1/8"	1 1/8"	1 3/8"	1 3/8"	1 5/8"	1 5/8"	1 5/8"	1 5/8"	1 5/8"	
Outlet	Ø	5/8"	7/8"	7/8"	7/8"	1 1/8"	1 1/8"	1 3/8"	1 3/8"	1 3/8"	1 3/8"	1 3/8"	

(1) Additional pressure available in Pascals.

(2) DT1 = difference between the ambient air temperature and the condensation temperature considered equal at an equivalent condenser inlet pressure.

(3) Sound pressure level in dB(A) at 10 m, in direct light of sight on a non-reflective surface.

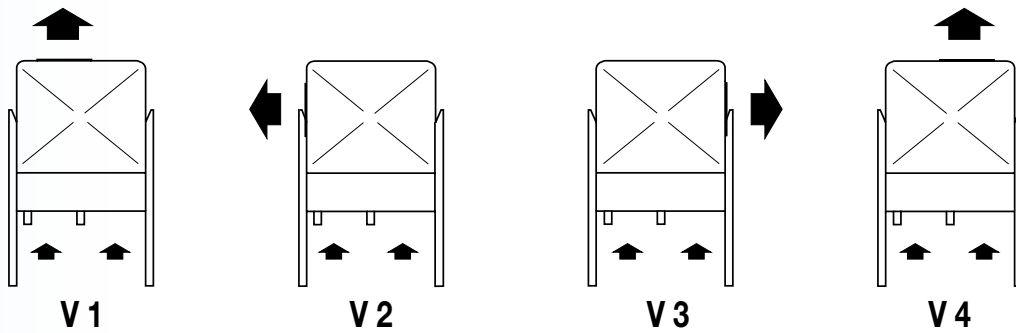
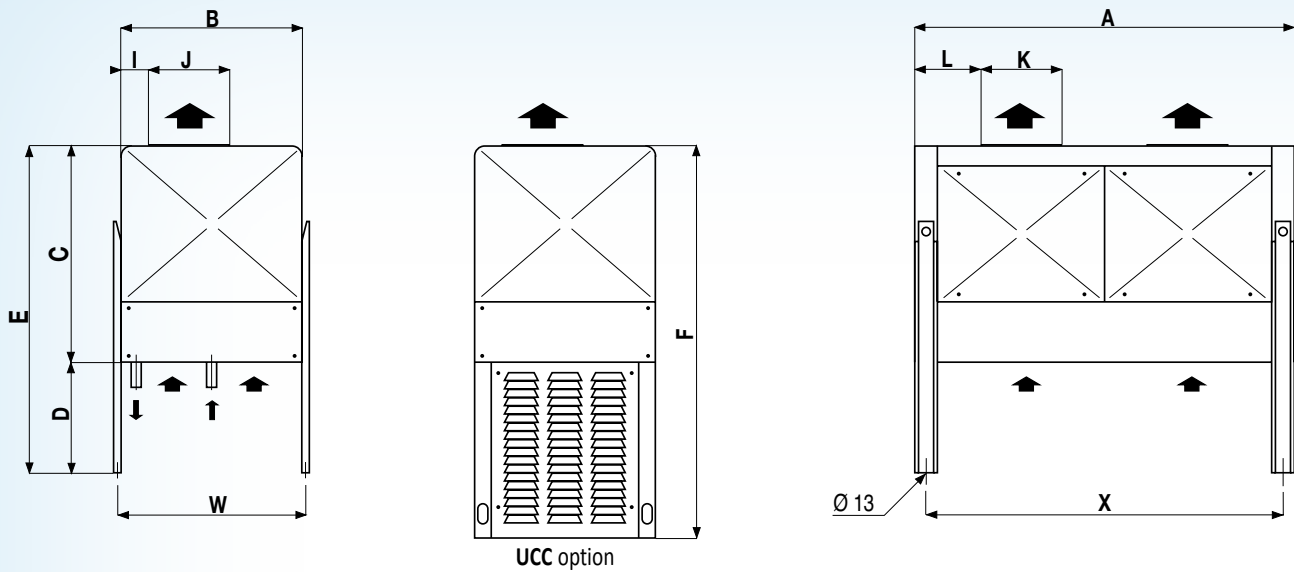
(4) Multi-circuit condensers: M = maximum number of circuits.

UCC*	PEI	IPH	FLA	DEM	ECB	VPS	MCI	BAE	BXT
0	0	0	0	0	0	0	0	0	0

* Except CCT 3x12T B2 to CCT 4x12T B5

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Vertical air



Horizontal air

