

Condensers

CCT



4 kW

138 kW



UCC option



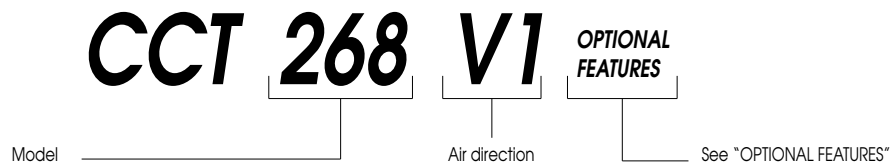
FRIGA-BOHN



www.friga-bohn.com

The air cooled condensers **CCT** are equipped with centrifugal fans with additional air pressure available up to 150 pascals. The **CCT** line offers 29 basic models with a capacity ranging from 4 up to 138 kW.

NOMENCLATURE



DESCRIPTION

• COIL

The air cooled condensers of the **CCT** range are equipped with high performance coils manufactured from Ø 3/8" (9,53 mm) copper tube in a staggered arrangement mechanically expanded into corrugated aluminium fins - 2,12 mm spacing - thus optimizing the heat transfer.

Connections to be brazed. Pressure fitting.

• CASING

Galvanized steel casing.

All the components of the **CCT** range are suitable for outdoor installation.

Easy access to all the components of the **CCT** air cooled condensers facilitates the operations of installation, maintenance and cleaning.

In case of difficulty to access the site of installation, the condensers of the **CCT** range can easily be dismantled and rebuilt on site. The outlet air direction can easily be changed on site.

• VENTILATION

Centrifugal fan assemblies: additional air pressure up to 150 pascals possible, corrected performances.

Direct driven 'twin intake' centrifugal fans, 1000 r.p.m.

Connections for textile ducts.

230 V-50 Hz single phase (230/400 V-50 Hz 3 phase for **CCT 201-283-402-478-566-603-717-849-956** and **1132**) IP 54, class F, totally enclosed and life lubricated motors with internal thermal protector. The motors are factory wired into an easily accessible junction box (400 V factory coupling for 3 phase motors).

In order to facilitate the head pressure control by fan cycling, baffled coil sections avoid air by-pass.

The two possible positions of the condenser, vertical or horizontal air intake also offer four possibilities for the air discharge; to be specified when ordering: V1, V2, V3, V4 or H1, H2, H3, H4.

OPTIONAL FEATURES

- Coil:
 - MCI** Multicircuiting.
 - BAE** Coated fins.
 - Fins** Other fin spacings.
- Miscellaneous:
 - PEI** RAL 7035 grey enamel.
 - VPS** Louvres at the air discharge.
 - FLA** Air intake filters.
 - IPH** Acoustic insulation.
 - UCC** Compressor housing (except **CCT 528** and **CCT 603** to **CCT 1132**).
 - ECB** Full crate.

DT1 (2) = 15 K - R404A

Models	CCT ...		39	49	65	77	86	102	130	134	153	172	176	201	204	229	268
0 Pa ⁽¹⁾	Capacity P ₁	kW	4,7	5,9	7,9	9,3	10,4	12,4	15,8	16,3	18,6	20,8	21,4	24,4	24,7	27,7	32,4
	Air flow	m ³ /h	1550	1550	2290	2230	2600	2920	4580	4050	3820	5200	4400	7600	5840	5700	8100
50 Pa ⁽¹⁾	Capacity P ₁	kW	4,6	5,7	7,5	8,8	9,5	11,5	14,9	15,3	17,1	19,1	19,8	23,5	22,9	26,3	30,6
	Air flow	m ³ /h	1500	1470	2110	2050	2300	2650	4220	3750	3450	4600	4040	7250	5300	5350	7500
100 Pa ⁽¹⁾	Capacity P ₁	kW	4,4	5,5	6,9	7,9	8,3	10,1	13,8	13,9	15,1	16,5	18,0	22,4	20,2	24,8	27,8
	Air flow	m ³ /h	1400	1380	1890	1800	1900	2260	3780	3300	3060	3800	3620	6750	4520	5000	6600
150 Pa ⁽¹⁾	Capacity P ₁	kW	4,1	5,0	5,8	6,3	-	7,2	11,7	11,9	12,4	-	15,4	21,4	14,3	23,1	23,8
	Air flow	m ³ /h	1250	1220	1500	1350	-	1490	3000	2700	2560	-	3100	6300	2980	4650	5400
Surface		m ²	10,1	15,2	15,2	20,3	20,3	31,2	30,4	31,2	46,8	40,6	70,3	41,0	62,4	70,3	62,4
Circuit vol.		dm ³	1,4	2,1	2,1	2,8	2,8	4,2	4,0	4,2	6,3	5,4	9,3	5,4	8,2	9,3	8,2
		No	1	1	1	1	1	1	2	1	1	2	1	1	2	1	2
Fan	230 V/1 50 Hz	W/u A max/u	147 1,7	147 1,7	245 1,9	245 1,9	245 1,9	245 1,9	245 1,9	368 4,0	368 4,0	245 1,9	368 4,0	-	245 1,9	552 5,8	368 4,0
	230/400 V 3/50 Hz	W/u A max/u	-	-	-	-	-	-	-	-	-	-	-	2400 7/4	-	-	-
Acoustic		dB(A) ⁽³⁾	44	44	43	43	43	43	46	46	46	46	46	51	46	49	49
Net weight		kg	47	49	55	57	58	76	96	80	87	102	106	108	134	117	142
M (4)			1	2	2	2	2	3	3	3	4	4	6	6	6	6	6

Models	CCT ...		283	306	352	402	458	478	528	566	603	687	717	849	956	1132
0 Pa ⁽¹⁾	Capacity P ₁	kW	34,3	37,1	42,6	48,7	55,4	57,9	64,0	68,6	73,0	83,2	86,9	102,9	115,9	137,2
	Air flow	m ³ /h	7150	7640	8800	15200	11400	14900	13200	14300	22800	17100	22350	21450	29800	28600
50 Pa ⁽¹⁾	Capacity P ₁	kW	32,5	34,1	39,6	47,1	52,5	55,5	59,5	65,0	70,6	78,9	83,3	97,6	111,0	130,1
	Air flow	m ³ /h	6700	6900	8080	14500	10700	14100	12120	13400	21750	16050	21150	20100	28200	26800
100 Pa ⁽¹⁾	Capacity P ₁	kW	30,7	30,2	35,9	44,9	49,7	53,5	54,0	61,4	67,3	74,5	80,2	92,1	106,9	122,7
	Air flow	m ³ /h	6250	6120	7240	13500	10000	13400	10860	12500	20250	15000	20100	18750	26800	25000
150 Pa ⁽¹⁾	Capacity P ₁	kW	28,4	24,9	30,8	42,8	46,3	49,8	46,3	56,8	64,2	69,4	74,7	85,2	99,7	113,7
	Air flow	m ³ /h	5700	5120	6200	12600	9300	12200	9300	11400	18900	13950	18300	17100	24400	22800
Surface		m ²	82,0	93,6	140,6	82,0	140,6	109,2	210,9	164,0	123,0	210,9	163,8	246,0	218,4	328,0
Circuit vol.		dm ³	10,8	12,3	18,2	10,6	18,2	14,1	27,1	21,2	15,8	27,1	21,0	31,6	27,9	41,9
		No	1	2	2	2	2	2	3	2	3	3	3	4	4	
Fan	230 V/1 50 Hz	W/u A max/u	-	368 4,0	368 4,0	-	552 5,8	-	368 4,0	-	-	552 5,8	-	-	-	-
	230/400 V 3/50 Hz	W/u A max/u	2400 7/4	-	-	2400 7/4	-	2400 7/4	-	2400 7/4	2400 7/4	-	2400 7/4	2400 7/4	2400 7/4	2400 7/4
Acoustic		dB(A) ⁽³⁾	51	49	49	54	52	54	51	54	56	54	56	56	57	57
Net weight		kg	125	154	194	197	216	208	283	230	288	315	303	336	396	439
M (4)			7	8	9	10	12	14	18	14	14	18	18	21	18	28

(1) Additional air pressure available in pascals.

(2) DT1 = difference between the entering air temperature and the condensing temperature considered as being equal to the pressure equivalent at the condenser inlet.

(3) Sound pressure level in dB(A) at 10 meters in a free field 'without reflexion'.

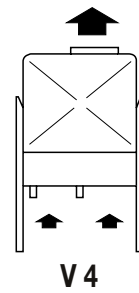
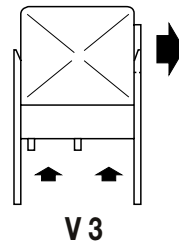
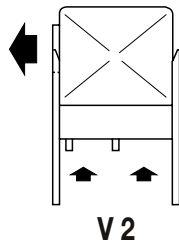
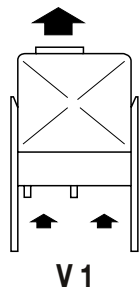
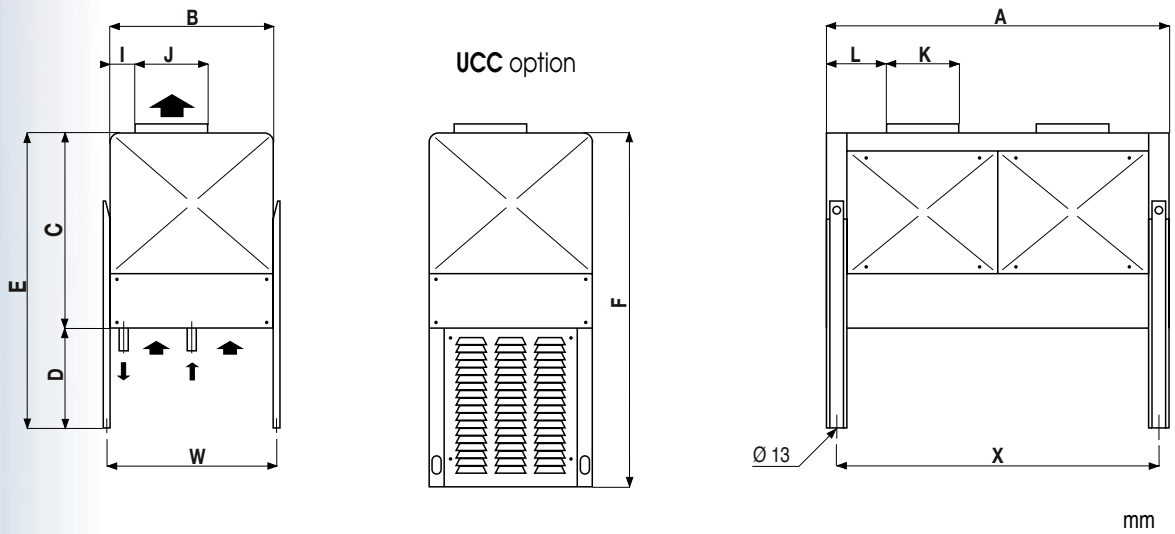
(4) Condensers with multicircuits: M = maximum number of circuits.

DIMENSIONAL DATA

Models	CCT ...	39	49	65	77	86	102	130	134	153	172	176	201	204	229	268
Fan	No	1	1	1	1	1	1	2	1	1	2	1	1	2	1	2
A	mm	690	690	690	690	690	830	1190	830	830	1190	1150	1150	1470	1150	1470
B	mm	590	590	590	590	590	695	590	695	695	590	695	795	695	695	695
C	mm	660	660	660	660	660	835	660	835	835	660	835	835	835	835	835
D	mm	340	340	340	340	340	400	340	400	400	340	400	400	400	400	400
E	mm	1000	1000	1000	1000	1000	1235	1000	1235	1235	1000	1235	1235	1235	1235	1235
F	mm	1225	1225	1225	1225	1225	1500	1225	1500	1500	1225	1500	1600	1500	1500	1500
G	mm	1250	1250	1250	1250	1250	1530	1250	1530	1530	1250	1530	1630	1530	1530	1530
H	mm	615	615	615	615	615	725	615	725	725	615	725	825	725	725	725
I	mm	103	103	103	103	103	103	103	103	103	103	103	153	103	103	103
J	mm	222	222	260	260	260	260	260	290	290	260	290	342	260	342	290
K	mm	234	234	234	234	300	300	234	334	334	300	334	396	300	396	334
L	mm	228	228	228	228	195	265	228	248	248	195	408	377	265	377	248
W	mm	610	610	610	610	610	725	610	725	725	610	725	825	725	725	725
X	mm	595	595	595	595	595	735	1095	735	735	1095	1055	1055	1375	1055	1375
Y	mm	725	725	725	725	725	900	725	900	900	725	900	900	900	900	900
Z	mm	1295	1295	1295	1295	1295	1575	1295	1575	1575	1295	1575	1675	1575	1575	1575
Inlet	∅	1/2"	5/8"	5/8"	3/4"	3/4"	3/4"	3/4"	3/4"	1 1/8"	1 1/8"	1 1/8"	1 1/8"	1 1/8"	1 1/8"	1 1/8"
Outlet	∅	3/8"	1/2"	1/2"	5/8"	5/8"	5/8"	5/8"	5/8"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"

Models	CCT ...	283	306	352	402	458	478	528	566	603	687	717	849	956	1132
Fan	No	1	2	2	2	2	2	3	2	3	3	3	3	4	4
A	mm	1150	1470	2110	2110	2110	2110	3070	2110	3070	3070	3070	3070	4030	4030
B	mm	795	695	695	795	695	795	695	795	795	695	795	795	795	795
C	mm	835	835	835	835	835	835	835	835	835	835	835	835	835	835
D	mm	400	400	400	400	400	400	400	400	400	400	400	400	400	400
E	mm	1235	1235	1235	1235	1235	1235	1235	1235	1235	1235	1235	1235	1235	1235
F	mm	1600	1500	1500	1600	1500	1600	-	1600	-	-	-	-	-	-
G	mm	1630	1530	1530	1630	1530	1630	-	1630	-	-	-	-	-	-
H	mm	825	725	725	825	725	825	725	825	825	725	825	825	825	825
I	mm	153	103	103	153	103	153	103	153	153	103	153	153	153	153
J	mm	342	290	290	342	342	342	290	342	342	342	342	342	342	342
K	mm	396	334	334	396	396	396	334	396	396	396	396	396	396	396
L	mm	377	248	408	377	377	377	408	377	377	377	377	377	377	377
W	mm	825	725	725	825	725	825	725	825	825	725	825	825	825	825
X	mm	1055	1375	2015	2015	2015	2015	2975	2015	2975	2975	2975	2975	3935	3935
Y	mm	900	900	900	900	900	900	900	900	900	900	900	900	900	900
Z	mm	1675	1575	1575	1675	1575	1675	-	1675	-	-	-	-	-	-
Inlet	∅	1 1/8"	1 1/8"	1 3/8"	1 3/8"	1 3/8"	1 3/8"	1 5/8"	1 5/8"	1 5/8"	1 5/8"	1 5/8"	1 5/8"	2 1/8"	2 1/8"
Outlet	∅	3/4"	3/4"	7/8"	7/8"	7/8"	7/8"	1 1/8"	1 1/8"	1 1/8"	1 1/8"	1 1/8"	1 1/8"	1 3/8"	1 3/8"

VERTICAL AIR FLOW



HORIZONTAL AIR FLOW

