

Split Type Condensing Unit

Technical Catalog



cooling systems

Scroll
ICU-C • Series



Advantages

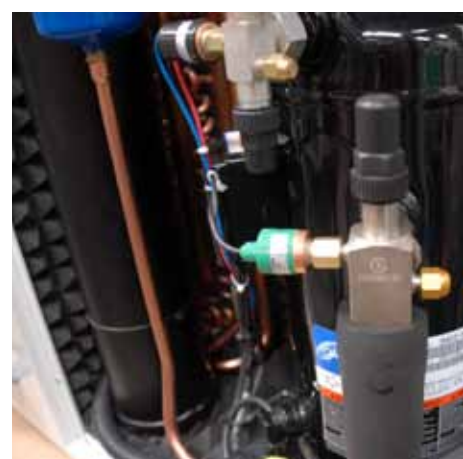
- Appropriate to standards
- High efficiency
- Top quality components
- Full cabinet unit for outside applications
- Easy assembling and mounting
- Designed for easy maintenance and mounting
- Floor or wall mount opportunities
- Wide product range
- Complete, ready to install unit
- Special models/designs are also available

Technical specifications

- Electrostatic painted, steel galvanized unit
- Voltage protection relay
- Magneto-thermal switch on three phase models
- Contactor on all model range
- Crankcase heater
- Cu/Al condenser
- Electronic fan speed control
- Liquid receiver
- Drier filter
- Gas flow gauge with humidity indicator
- Service/maintenance valve on liquid line
- LP/HP combined pressure cut-off
- Integrated electric box
- Pressure relay valve
- Acoustic insulation
- Electric isolator
- Special jacket for extra low noise on compressor
- Specially designed mounting brackets

Optional

- Electronic fan speed variator for condenser fans,
- Soundproofing kit



Cooling capacity range is 0.8- 12 kW, widely used for refrigerated display cabinets, cold rooms, ice and ice-cream machines and low capacity other industrial refrigeration applications.

The system functions have been developed for maximum safety and efficiency. During the maintenance and service the unit remain operating due to the fact that compressor has been attached independently.

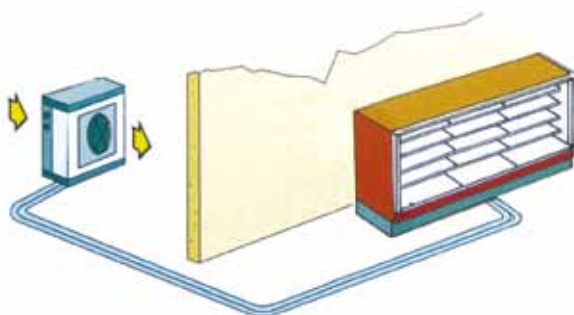
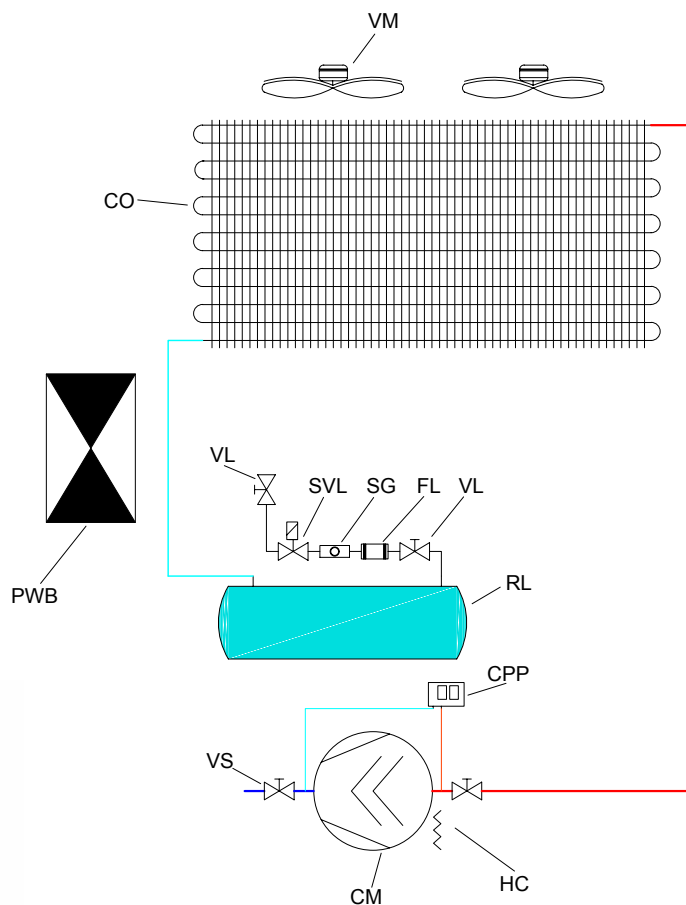
In these models the operation noise level is kept at minimum. 900 rpm fans are used on all range and acoustic insulation is applied to all range to provide very low operation noise 30 to 40 dB(A) at 10 m distance respect to ISO3744. Electronic fan speed control is also a standard in this model range to give the best results during night.

Taking into account the usage of units at outside the design has been made especially for easy assembly and maintenance while keeping an aesthetic appearance with its special geometrical shape as these units are mounted also to spots like roofs or terraces of buildings.

ICU-C condensing units with extended model ranges and special model options together with capacity variations give best results for every requirement.



- CM : Compressor
- HC : Crankcase Heater
- CO : Condenser
- VM : Condenser Fan
- CPP : Pressure Switch (high/low)
- RL : Refrigerant Reservoir
- VL : Liquid Line Valve
- VS : Service Valve
- FL : Drier Filter
- SG : Gas Flow Gauge
- SVL : Liquid Flow Control Solenoid
- PWB : Electrical Power and Control Box



Technical Specifications

Model (With Condanser)	Compressor Model	Cooling Capacity W						Current Max.	Electrical Power kW (-10°C)	Sound Power	Condanser		Connection	Weight	Cabin Type
		-5/+45	-5/+50	-10/+45	-10/+50	-15/+45	-15/+50	A	400 V / 3 / 50Hz	dB	m²	Fan	Suction line Discharge Line	Kg	
COPELAND / Scroll Compressor / High Speed Fan															
ICU-CM 06 Z.C-4	ZB 15 KCE	4040	3590	3320	2940	2690	2360	6,4	2,16	44	15,33	1x450	5/8"	76	F 11
ICU-CM 07 Z.C-4	ZB 19 KCE	5000	4550	4160	3770	3430	3110	9,9	2,84	44	15,33	1x500	3/4"	96	F 11
ICU-CM 08 Z.C-4	ZB 21 KCE	6070	5500	5050	4570	4160	3770	8,7	2,85	48	28,1	1x450	3/4"	96	F 21
ICU-CM 10 Z.C-4	ZB 26 KCE	7020	6380	5840	5300	4820	4370	12,3	3,68	48	28,1	1x500	7/8"	96	F 21
ICU-CM 12 Z.C-4	ZB 30 KCE	8280	7510	6870	6210	5640	5090	13,7	4,09	45	37,47	1x500	7/8"	138	F 21
ICU-CM 15 Z.C-4	ZB 38 KCE	10250	9330	8530	7740	7030	6360	15,9	4,88	47	44,07	2x450	1"1/8	138	F 31
ICU-CM 17 Z.C-4	ZB 45 KCE	12100	10950	10050	9120	8290	7520	19,8	6,29	51	58,75	2x500	1"1/8'	138	F 31
ICU-CM 21 Z.C-4	ZB 58 KCE	16100	14600	13300	12000	10750	9570	28,8	9,27	51	72,75	4x500	1"1/8	138	F 51
ICU-CM 29 Z.C-4	ZB 76 KCE	21400	19550	17850	16200	14700	13250	26,6	9,51	52	87,3	4x450	1"3/8	185	F 51
ICU-CM 36 Z.C-4	ZB 92 KCE	26300	23700	21700	19500	17650	15650	34,4	11,86	53	116,4	4x450	1"3/8	185	F 51
COPELAND / Scroll Compressor / Low Speed Fan															
ICU-CM 06 Z.C-6	ZB 15 KCE	4040	3590	3320	2940	2690	2360	5,6	1,97	41	15,33	1x500	5/8"	76	F 11
ICU-CM 07 Z.C-6	ZB 19 KCE	5000	4550	4160	3770	3430	3110	7,8	2,38	41	28,1	1x450	3/4"	96	F 11
ICU-CM 08 Z.C-6	ZB 21 KCE	6070	5500	5050	4570	4160	3770	7,9	2,66	45	28,1	1x500	3/4"	96	F 21
ICU-CM 10 Z.C-6	ZB 26 KCE	7020	6380	5840	5300	4820	4370	10,2	3,22	45	37,47	1x500	7/8"	96	F 21
ICU-CM 12 Z.C-6	ZB 30 KCE	8280	7510	6870	6210	5640	5090	11,6	3,63	42	44,07	2x400	7/8"	138	F 21
ICU-CM 15 Z.C-6	ZB 38 KCE	10250	9330	8530	7740	7030	6360	14,2	4,50	44	58,75	2x500	1"1/8	138	F 31
ICU-CM 17 Z.C-6	ZB 45 KCE	12100	10950	10050	9120	8290	7520	15,6	5,37	48	72,75	2x500	1"1/8'	138	F 31
ICU-CM 21 Z.C-6	ZB 58 KCE	16100	14600	13300	12000	10750	9570	20,5	7,43	48	87,3	4x450	1"1/8	138	F 51
ICU-CM 29 Z.C-6	ZB 76 KCE	21400	19550	17850	16200	14700	13250	23,1	8,75	49	87,3	4x500	1"3/8	185	F 51
ICU-CM 36 Z.C-6	ZB 95 KCE	26300	23700	21700	19500	17650	15650	30,9	11,10	50	116,4	4x500	1"3/8	185	F 51
SANYO / Scroll Compressor / Low Speed Fan															
ICU-CM 10 Z.S	CSBN263H8A	7024	6520	5712	5260	4661	4263	5,70	2,71	47	28,01	1x500	7/8"	94	F 21
ICU-CM 12 Z.S	CSBN303H8G	8964	8178	7360	6720	6090	5560	6,20	3,07	48	37,47	1x500	7/8"	94	F 21
ICU-CM 15 Z.S	CSBN373H8G	10774	9954	8746	8053	7140	6573	7,80	3,96	50	44,07	2x450	7/8"	135	F 31
ICU-CM 17 Z.S	CSBN453H8G	13269	12970	10804	9891	8867	8085	9,10	4,56	52	58,75	2x500	1"1/8	135	F 31
ICU-CM 20 Z.S	CSBS235H38B	14730	13910	12223	11529	10185	9607	10,40	4,89	52	72,75	2x500	1"1/8	135	F 31

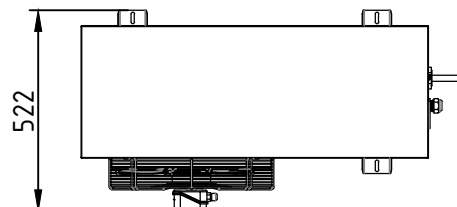
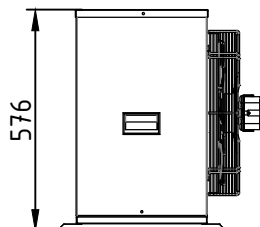
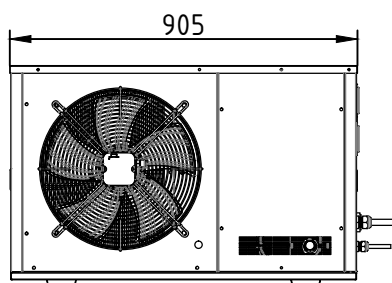
Model Designation

ICU	C	M	15	Z	C	4
1	2	3	4	5	6	7

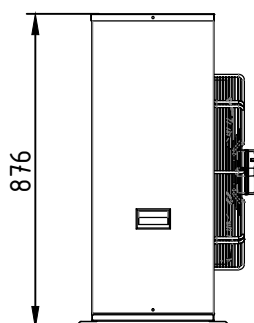
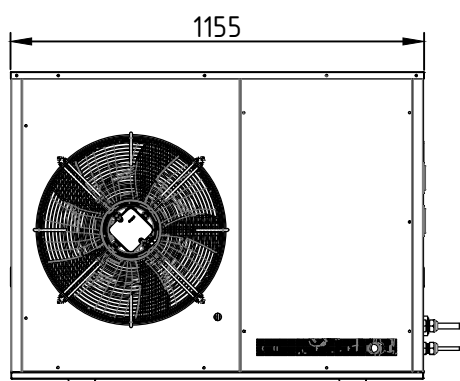
- Production Serie
- Compressor Make Model
H: Hermetic **C:** Scroll **S:** Semi-Hermetic
- Application Temperature
M: -5/+5 °C **L:** -15 / -25 °C
- Total Displacement

- Refrigerant
E: R 22 **Z:** R 404 A **Y:** R 134 A
- Compressor Make
B: Bitzer **F:** Frascold **T:** Tecumseh **C:** Copeland **BS:** Bristol **S:** Sanyo
- Fan Speed
4: 1400 d/d **6:** 900 d/d **8:** 660 d/d **12:** 330 d/d

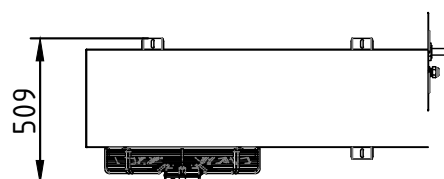
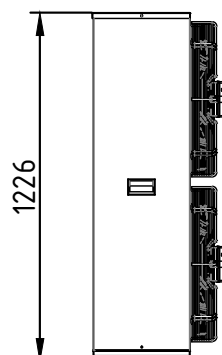
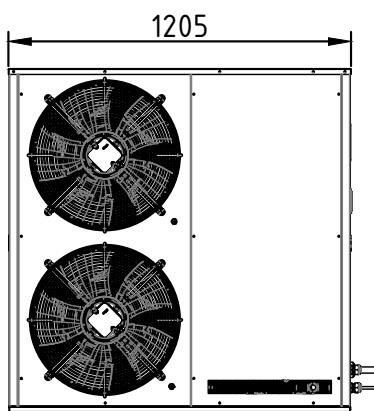
F11



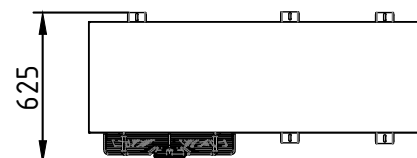
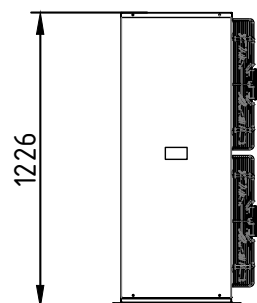
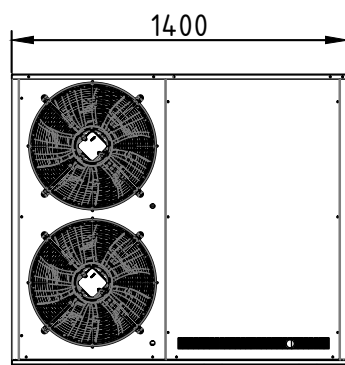
F21



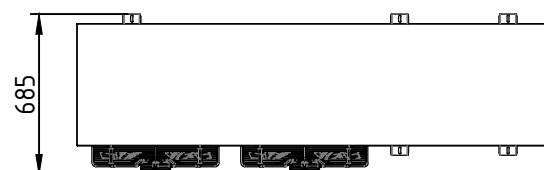
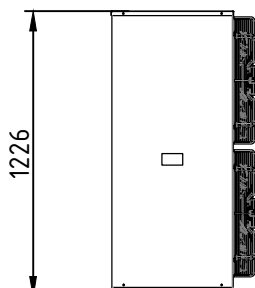
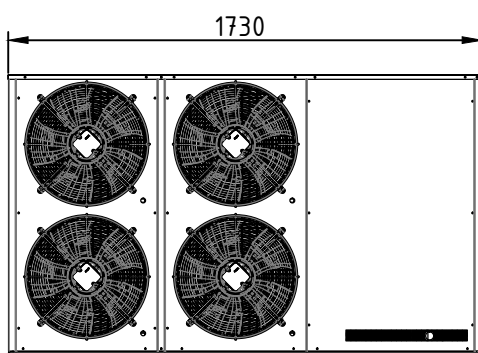
F31



F42



F51





Connections



Selenoid Valves



Pressure Gauges



Safety Switch



Pressure Controls



Fan Speed Control



Fan



Elektrical Board



Pressure Switch

