

intarblock



Self-contained monoblock units for wall-mount installation in small cold rooms at positive and negative temperature.

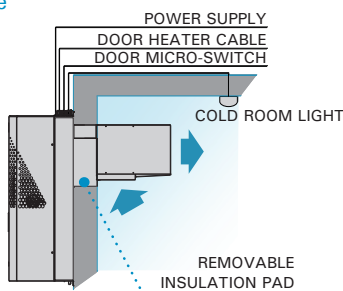
Features

- ▶ 230V 50Hz or 400V 3N 50Hz power supply. Available in 60Hz. Others voltages by request.
- ▶ R-134a or R-449A refrigerant load, below 2 kg.
- ▶ Hermetic reciprocating compressor.
- ▶ High pressure switches.
- ▶ Thermostatic expansion valve.
- ▶ MCB protection.
- ▶ Hot gas defrost.
- ▶ Stainless steel drain pan.
- ▶ Evaporation of condensed water.
- ▶ Cold room lamp and door micro-switch cable.
- ▶ Door heater cable (only for BCV series).
- ▶ Removable through-wall insulation pad included.
- ▶ Multifunction electronic control.

Series

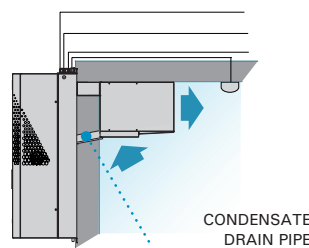
- ▶ **CV-N:** Monoblock units ready for quick installation through cold room wall and removable through-wall insulation pad for drop-in frame mounting.
- ▶ **CV-C:** Centrifugal version units featuring a centrifugal motor fan for ducted outlet of condenser hot air.
- ▶ **CV-I:** Weatherproof monoblock units for outdoors installations at positive and negative small cold rooms.

Installation scheme



Plug-in frame mounting

A removable insulation pad is included for direct installation through a hole in the cold room wall.



Drop-in frame mounting (except for series 0)

After cutting a channel for tube passage in the wall panel, the unit can be dropped in before assembling the ceiling panel.

- ❄ Compact unit with reduced refrigerant load, less than 2 kg.
- ❄ Tropicalised design for high ambient temperature up to 45 °C.
- ❄ Thermostatic expansion valve.
- ❄ Hot gas defrost with temperature control.
- ❄ Units exempt from leak checks.

Installation



Electronic control

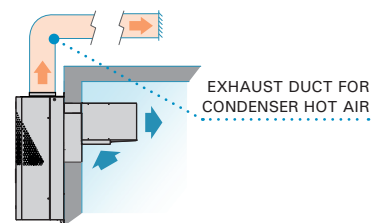
intarblock units feature XWING electronic control as standard.



- Temperature control with maximum and minimum temperature value recording.
- Quick cooling function "Jet Cool".
- Night operation mode.

Centrifugal version

intarblock centrifugal units feature a centrifugal motor fan to duct hot condensation airflow outdoors.



Exhaust duct

Recommended size for 20 m long steel, PVC or fibreglass ducts (each elbow at 90° equals 5 m in length). For flexible or semi-flexible ducts use a larger size.

- 0 series: 200 x 150 mm or Ø 150 mm
- 1 series: 200 x 200 mm or Ø 150 mm
- 2 series: 250 x 150 mm or Ø 200 mm
- 3 series: 300 x 200 mm or Ø 250 mm

230V 50Hz / 400V 3N 50Hz | Positive temperature | R-134a

Axial version	Compressor		Cooling capacity / Cold room volume according to cold room temperature ⁽¹⁾						Input power (kW)	Max. current (A)	Evap. air flow (m ³ /h)	Refrig. load (kg) ⁽²⁾	Weight (kg)	SPL dB(A) ⁽³⁾	Price (€)	
			0 °C		5 °C		10 °C									
			W	m ³	W	m ³	W	m ³								
R-134a	MCV-NY-0 010	3/8	230V	610	4.0	758	7.0	907	12	0.43	4.5	300	<1.0	36	29	1 876
	MCV-NY-0 015	1/2	230V	794	6.0	961	10	1 139	18	0.53	5.5	300	<1.0	38	32	2 166
	MCV-NY-1 015	1/2	230V	972	8.0	1 199	14	1 453	23	0.57	5.6	500	<1.0	60	32	2 388
	MCV-NY-1 026	3/4	230V	1 281	12	1 565	19	1 859	30	0.81	9.3	500	<1.0	69	30	2 664
	MCV-NY-1 033	1	230V	1 454	14	1 743	25	2 037	41	0.92	9.5	500	<1.0	70	33	2 814
	MCV-NY-2 033	1	230V	1 790	19	2 163	36	2 573	57	1.09	10.3	950	<1.5	88	34	3 467
	MCV-NY-2 053	1 1/2	230V *	2 153	24	2 609	41	3 103	72	1.46	12.9	950	<1.5	89	38	3 882
	MCV-NY-3 053	1 1/2	230V *	2 489	29	3 103	53	3 743	83	1.51	13.1	1 300	<2.0	117	39	4 484
	MCV-NY-3 074	2	230V *	3 239	40	3 938	70	4 667	97	1.89	17.1	1 300	<2.0	114	44	4 870
	MCV-NY-3 108	5	400V 3N	3 927	51	4 725	110	5 539	130	2.48	18.6	1 300	<2.0	116	45	5 186

Centrifugal version	Conden. air flow (m ³ /h)	ASP (mmca) ⁽⁴⁾	Price (€)
MCV-CY-0 010	375	8	2 127
MCV-CY-0 015	375	8	2 452
MCV-CY-1 015	575	8	2 704
MCV-CY-1 026	575	8	3 019
MCV-CY-1 033	575	8	3 188
MCV-CY-2 033	950	13	3 926
MCV-CY-2 053	950	13	4 396
MCV-CY-3 053	1 150	8	5 264
MCV-CY-3 074	1 150	8	5 718
MCV-CY-3 108	1 150	8	6 088

230V 50Hz / 400V 3N 50Hz | Negative temperature | R-449A

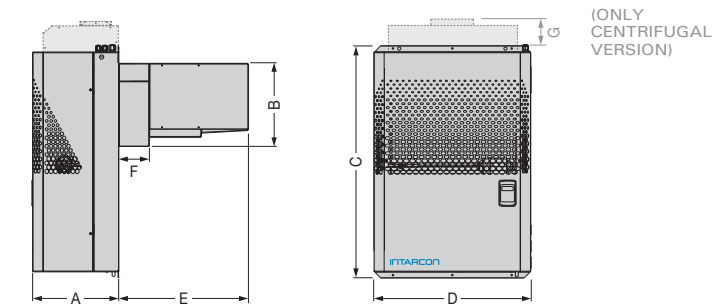
Axial version	Compressor		Cooling capacity / Cold room volume according to cold room temperature ⁽¹⁾						Input power (kW)	Max. current (A)	Evap. air flow (m ³ /h)	Refrig. load (kg) ⁽²⁾	Weight (kg)	SPL dB(A) ⁽³⁾	Price (€)	
			-25 °C		-20 °C		-15 °C									
			W	m ³	W	m ³	W	m ³								
R-449A	BCV-NG-0 018	5/8	230V	382	0.6	486	1.5	596	2.8	0.50	4.7	300	<0.5	38	31	2 525
	BCV-NG-1 026	3/4	230V	550	2.1	721	4.3	888	7.6	0.84	8.5	550	<1.0	60	31	2 909
	BCV-NG-1 034	1 1/4	230V	697	3.2	882	6.1	1 047	10	1.05	11.0	550	<1.0	60	33	2 990
	BCV-NG-2 034	1 1/4	230V	793	3.8	1 049	7.7	1 341	14	1.11	11.9	950	<1.0	89	35	3 192
	BCV-NG-2 055	1 3/4	230V *	1 155	8.0	1 560	15	1 960	26	1.60	17.5	950	<1.0	96	41	3 820
	BCV-NG-2 075	2 1/2	230V *	1 453	11	1 835	18	2 245	31	2.00	25.5	950	<1.0	101	44	4 186
	BCV-NG-3 075	2 1/2	230V *	1 680	13	2 150	23	2 635	38	2.20	26.0	1 300	<1.5	113	44	4 655
	BCV-NG-3 096	3 1/2	400V 3N	2 022	18	2 492	32	2 942	54	2.39	12.1	1 300	<1.5	129	49	4 951

Centrifugal version	Conden. air flow (m ³ /h)	ASP (mmca) ⁽⁴⁾	Price (€)
BCV-CG-0 018	375	8	2 817
BCV-CG-1 026	575	8	3 243
BCV-CG-1 034	575	8	3 317
BCV-CG-2 034	950	13	3 678
BCV-CG-2 055	950	13	4 316
BCV-CG-2 075	950	13	4 685
BCV-CG-3 075	1 150	8	5 393
BCV-CG-3 096	1 150	8	5 706

Options

- ▶ Change to 400V 3N 50Hz power supply. + 5 %
- ▶ Door micro-switch. + 63 €
- ▶ Non-return damper (centrifugal version). + 67 €
- ▶ Adaptation of air discharge to circular duct. + 123 €
- ▶ Evaporator coil epoxy anti-corrosion treatment. + 6 %

Dimensions



Dimensions (mm)	A	B	C	D	E	F	G	Fan outlet
0 series	306	510	683	420	250	100	90	185 x 115
1 series	340	330	880	400	514	122	42	185 x 115
2 series	340	330	920	620	514	122	140	230 x 130
3 series	365	470	940	735	514	122	50	2x 185 x 115

⁽¹⁾ Nominal performances refer to operation with cold room temperatures of 0 °C (PT) and -20 °C (NT), ambient temperature of 35 °C. Estimated cold room volume according to conditions of the calculation bases (page 8).

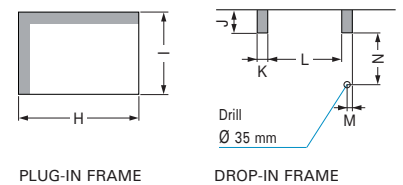
⁽²⁾ Units with refrigerant load less than 5 tons of CO₂ equivalent (3.5 kg of R-134a or R-449A) exempt from leak checking, Regulation (EU) No 517/2014.

⁽³⁾ Condenser sound pressure level, with directivity 1, measured at 10 m from the unit (non-binding value calculated from sound power).

⁽⁴⁾ Available Static Pressure of condensation.

* Available units with 400V 3N 50Hz power supply.

Mounting frame



Dimensions (mm)	H	I	J	K	L	M	N
0 series	405	515	n/a	n/a	n/a	n/a	n/a
1 series	380	335	75	38	295	21	218
2 series	600	335	75	30	522	16	218
3 series	715	475	75	45	607	20	356

230V 50Hz / 400V 3N 50Hz | Positive temperature | R-452A

Series / Model	Compressor		Cooling capacity / Cold room volume according to cold room temperature ⁽¹⁾								Input power (kW)	Max. current (A)	Evap. air flow (m³/h)	Conden. air flow (m³/h)	Refrig. load (kg)	Weight (kg)	SPL dB(A) ⁽²⁾	Price (€)
	HP	Power supply	-5 °C		0 °C		5 °C		10 °C									
			W	m³	W	m³	W	m³	W	m³								
MCV-IB-1 010	3/8	230V	630	3.5	799	6.4	966	11	1 157	19	0.65	5.5	500	575	< 1.0	59	34	2 943
MCV-IB-1 012	1/2	230V	767	4.9	930	8.2	1 118	14	1 317	23	0.67	6.5	500	575	< 1.0	60	34	3 036
MCV-IB-1 014	1/2	230V	893	6.3	1 077	10	1 270	16	1 485	27	0.80	7.1	500	575	< 1.0	60	34	3 133
MCV-IB-1 016	5/8	230V	985	7.4	1 184	12	1 386	19	1 615	30	0.87	8.0	500	575	< 1.0	69	34	3 227
MCV-IB-1 018	3/4	230V	1 138	9.3	1 347	14	1 570	22	1 806	35	1.02	9.3	500	575	< 1.0	70	34	3 388
MCV-IB-1 024	1	230V	1 207	10	1 468	16	1 739	25	2 039	41	1.18	12.3	500	575	< 1.0	70	34	3 578
MCV-IB-2 024	1	230V	1 554	14	1 917	23	2 296	36	2 726	57	1.36	11.9	950	950	< 1.0	88	35	4 407
MCV-IB-2 026	1 1/4	230V *	1 795	17	2 149	26	2 526	40	2 945	63	1.47	12.3	950	950	< 1.0	89	36	4 666
MCV-IB-2 034	1 1/2	230V *	1 996	20	2 391	31	2 801	46	3 247	72	1.95	16.9	950	950	< 1.5	89	37	4 921
MCV-IB-3 034	1 1/2	230V *	2 230	23	2 690	35	3 200	53	3 730	83	2.07	17.1	1 300	1 250	< 2.0	117	38	5 387
MCV-IB-3 038	1 3/4	400V 3N	2 500	27	3 020	41	3 580	62	4 220	97	1.97	7.9	1 300	1 250	< 1.5	114	40	5 853

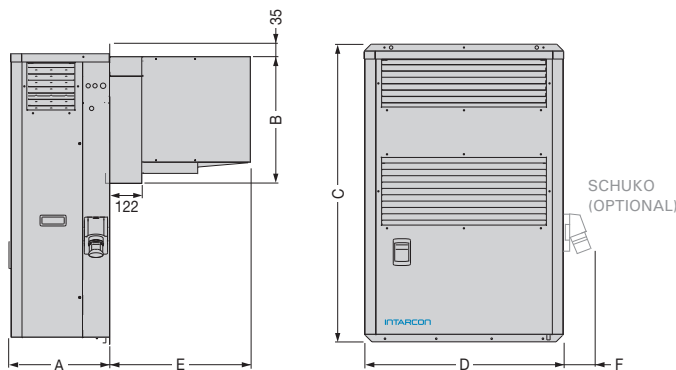
230V 50Hz / 400V 3N 50Hz | Negative temperature | R-452A

Series / Model	Compressor		Cooling capacity / Cold room volume according to cold room temperature ⁽¹⁾						Input power (kW)	Max. current (A)	Evap. air flow (m³/h)	Conden. air flow (m³/h)	Refrig. load (kg)	Weight (kg)	SPL dB(A) ⁽²⁾	Price (€)
	HP	Power supply	-25 °C		-20 °C		-15 °C									
			W	m³	W	m³	W	m³								
BCV-IB-1 018	5/8	230V	383	1.0	489	2.0	655	4.4	0.67	7.3	500	575	< 0.5	59	31	3 742
BCV-IB-1 026	3/4	230V	548	2.1	720	4.3	877	7.6	0.91	8.5	500	575	< 1.0	60	31	3 818
BCV-IB-1 034	1 1/4	230V	668	3.2	866	6.1	1 023	10	1.14	11.0	500	575	< 1.0	60	33	3 921
BCV-IB-2 034	1 1/4	230V	793	3.8	1 048	7.7	1 297	14	1.19	11.9	950	950	< 1.0	89	35	4 186
BCV-IB-2 055	1 3/4	230V *	1 280	11	1 650	14	2 025	22	1.80	17.9	950	950	< 1.0	96	41	5 012
BCV-IB-2 075	2 1/2	230V *	1 580	15	1 900	17	2 355	27	2.30	25.9	950	950	< 1.0	101	44	5 493
BCV-IB-3 075	2 1/2	230V *	1 630	16	2 130	19	2 540	30	2.50	26.0	1 300	1 250	< 1.5	113	44	6 140
BCV-IB-3 096	3 1/2	400V 3N	1 890	18	2 460	32	3 040	54	2.64	12.1	1 300	1 250	< 1.5	129	49	6 500

Options

- ▶ Change to 400V 3N 50Hz power supply. + 5 %
- ▶ Door micro-switch. + 63 €
- ▶ Condenser coil polyurethane anti-corrosion treatment. + 4 %
- ▶ Evaporator coil epoxy anti-corrosion treatment. + 6 %
- ▶ Male and female schuko electrical connector base. + 75 €
- ▶ Low voltage protection (single-phase models). + 184 €
- ▶ Low voltage and phase sequence protection (three-phase models). + 364 €

Dimensions



Measuring mm.

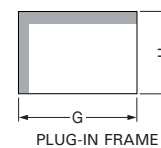
Dimensiones (mm)	A	B	C	D	E	F
1 series	340	330	1 060	400	514	115
2 series	340	330	1 100	620	514	115
3 series	365	470	1 100	735	514	115
3 096 series	365	470	1 215	735	514	115

⁽¹⁾ Nominal performances refer to operation with cold room temperatures of 0 °C (PT) and -20 °C (NT), ambient temperature of 35 °C. Estimated cold room volume according to conditions of the calculation bases (page 8).

⁽²⁾ Condenser sound pressure level, with directivity 1, measured at 10 m from the unit (non-binding value calculated from sound power).

* Available units with 400V 3N 50Hz power supply.

Mounting frame



Dimensions (mm)	G	H
1 series	380	335
2 series	600	335
3 series	710	475

Installations scheme

