

COMMERCIAL-INDUSTRIAL SERIES: DUCT

CVR - HIGH PRESSURE DUCT (INVERTER)

Features



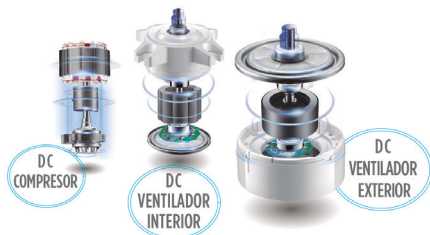
Optional



Main Features

3DC Inverter Technology

In the CVR series the compressor and fan motors are DC inverter technology (224-260-280), obtaining better regulation of operation and energy savings (up to 80 %).



Wired control

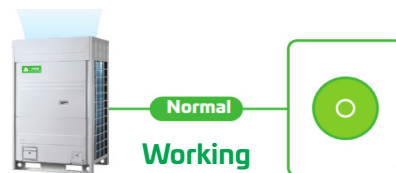
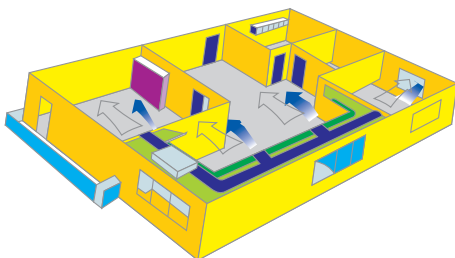
The wired control of the high pressure units (CVR) is bidirectional (data can flow both directions and either side can initiate data flow). This way installer or the customer can check the temperature, indoor units addressing or errors from the remote control. Timer function is also included.

Security and Comfort

The Coolwell CVR duct units are equipped with a display on the indoor unit to show the working conditions of the machine and errors. These machines also have an emergency system (fire alarm).

Large Air Diffusion Area

The CVR series indoor units include a fan motor group capable to overtake a static pressure up to 300 Pa (almost 100 m of duct).



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Indoor unit code			CVR-V224TH/HR1-B	CVR-V260TH/HR1-B	CVR-V280TH/HR1-B
Outdoor unit code			CVR-V224W/ZR1-D	CVR-V260W/ZR1-D	CVR-V280W/ZR1-D
Power supply Indoor unit		F-V-Hz	Monophase 220-240V 50Hz		
Power supply Outdoor unit		F-V-Hz	Three phase 380-415V 50Hz		
Refrigeration	Capacity	kW	22.4	26	28
	Input power	KW	6.98	7.94	8.81
	EER / SEER		3.12 / 6.2	3.22 / 6.2	3.15 / 6.1
Heating	Capacity	KW	25	28.5	31.5
	Input power	KW	6.33	7.17	8.14
	COP / SCOP		3.95 / 4.1	3.97 / 4.1	3.87 / 4.0
Indoor unit	Dimensions (L-A-P)	mm	1465 × 448 × 811	1465 × 448 × 811	1465 × 448 × 811
	Net weight	Kg	102	102	102
	Dimensions with packaging (L-A-P)	mm	1515 × 580 × 885	1515 × 580 × 885	1515 × 580 × 885
	Weight with packaging	Kg	113	113	113
	Air flow (Min-Max)	m ³ /h	2600 - 4400	2900 - 4800	2900 - 4800
	Sound pressure (Min-Max)	dB(A)	46 - 51	48 - 52	48 - 52
	Available static pressure	Pa	0 - 150	0 - 150	0 - 150
Outdoor unit	Dimensions (L-A-P)	mm	1014 × 1430 × 450	1120 × 1549 × 528	1120 × 1549 × 528
	Net weight	Kg	112.7	142	154
	Dimensions with packaging (L-A-P)	mm	1095 × 1545 × 485	1278 × 1703 × 560	1278 × 1703 × 560
	Weight with packaging	Kg	126.8	162	174
	Air flow	m ³ /h	8000	8000	9000
	Sound pressure	dB(A)	56	56	56
	Compressor type		DC	DC	DC
Dimensions and Limitations of the Refrigeration Circuit	Liquid line	Ø inches (mm)	3/8" (9.52)	1/2" (12.7)	1/2" (12.7)
	Gas line	Ø inches (mm)	1" (25.4)	1" (25.4)	1 1/8" (28.6)
	Pipe length with pre-charge	m	5	5	5
	Max. line length	m	60	60	60
	Refrigerant increase	g/m	110	110	110
	Max. level difference (outdoor up)	m	30	30	30
	Max. level difference (outdoor down)	m	20	20	20
Refrigerant gas	Refrigerant type		R410A	R410A	R410A
	Refrigerant charge	Kg	6.1	8	8
Electrical Connections	Power supply Indoor unit	N° cables / section	3*2.5 mm ²	3*2.5 mm ²	3*2.5 mm ²
	Power supply Outdoor unit	N° cables / section	5*6 mm ²	5*6 mm ²	5*6 mm ²
	Indoor-outdoor interconnection	N° cables / section	3*0.75 mm ²	3*0.75 mm ²	3*0.75 mm ²
Operating limits	Indoor temperature (Min / Max)	Refrig. °C B.U.	16 / 32	16 / 32	16 / 32
		Heat. °C B.S.	16 / 32	16 / 32	16 / 32
	Outdoor temperature (Min / Max)	Refrig. °C B.S.	-5 / 55	-5 / 55	-5 / 55
		Heat. °C B.U.	-20 / 30	-20 / 30	-20 / 30

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Indoor unit code			CVR-V400TH/HZR1	CVR-V450TH/HZR1	CVR-V560TH/HZR1
Outdoor unit code			CVH-E400W/ZR1	CVH-E450W/ZR1	CVH-E560W/ZR1
Power supply Indoor unit		F-V-Hz	Monophase 220-240V 50Hz		
Power supply Outdoor unit		F-V-Hz	Three phase 380-415V 50Hz		
Refrigeration	Capacity	kW	40	45	56
	Input power	KW	10.75	12.63	15.86
	EER / SEER		3.72 / 6.1	3.56 / 6.1	3.53 / 6.1
Heating	Capacity	KW	45	50	63
	Input power	KW	10.34	11.87	15.36
	COP / SCOP		4.35 / 4.0	4.21 / 4.0	4.10 / 4.0
Indoor unit	Dimensions (L-A-P)	mm	2165 × 676 × 916	2165 × 676 × 916	2165 × 676 × 916
	Net weight	Kg	222	222	222
	Dimensions with packaging (L-A-P)	mm	2267 × 840 × 1050	2267 × 840 × 1050	2267 × 840 × 1050
	Weight with packaging	Kg	260	260	260
	Air flow (Min-Max)	m ³ /h	6000	6000	8000
	Sound pressure (Min-Max)	dB(A)	60	61	64
	Available static pressure	Pa	0 - 200	0 - 200	0 - 200
Outdoor unit	Dimensions (L-A-P)	mm	1340 × 1740 × 840	1340 × 1740 × 840	1340 × 1740 × 840
	Net weight	Kg	275	275	290
	Dimensions with packaging (L-A-P)	mm	1410 × 1900 × 910	1410 × 1900 × 910	1410 × 1900 × 910
	Weight with packaging	Kg	293	293	308
	Air flow	m ³ /h	14000	14000	16000
	Sound pressure	dB(A)	56	56	56
	Compressor type		DC	DC	DC
Dimensions and Limitations of the Refrigeration Circuit	Liquid line	Ø inches (mm)	5/8" (15.88)	5/8" (15.88)	5/8" (15.88) o (19.05)
	Gas line	Ø inches (mm)	1" 1/4 (31.88) o (28.6)	1" 1/4 (31.88) o (28.6)	1" 1/4 (31.88)
	Pipe length with pre-charge	m	5	5	5
	Max. line length	m	190	190	190
	Refrigerant increase	g/m	160	160	180 / 210
	Max. level difference (outdoor up)	m	90	90	90
	Max. level difference (outdoor down)	m	110	110	110
Refrigerant gas	Refrigerant type		R410A	R410A	R410A
	Refrigerant charge	Kg	14	14	16
Electrical Connections	Power supply Indoor unit	N° cables / section	3*2.5 mm ²	3*2.5 mm ²	3*2.5 mm ²
	Power supply Outdoor unit	N° cables / section	5*6 mm ²	5*6 mm ²	5*6 mm ²
	Indoor-outdoor interconnection	N° cables / section	3*0.75 mm ²	3*0.75 mm ²	3*0.75 mm ²
Operating limits	Indoor temperature (Min / Max)	Refrig. °C B.U.	16 / 32	16 / 32	16 / 32
		Heat. °C B.S.	16 / 32	16 / 32	16 / 32
	Outdoor temperature (Min / Max)	Refrig. °C B.S.	-5 / 55	-5 / 55	-5 / 55
		Heat. °C B.U.	-20 / 30	-20 / 30	-20 / 30

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Indoor unit code			CVR-D250TH/R1-F310	CVR-D250TH/R1-	CVR-V280TH/HR1-B
Outdoor unit code			CVR-V224W/ZR1-D	CVR-V260W/ZR1-D	CVR-V280W/ZR1-D
Power supply Indoor unit		F-V-Hz	Monophase 220-240V 50Hz		
Power supply Outdoor unit		F-V-Hz	Three phase 380-415V 50Hz		
Refrigeration	Capacity	kW	22.4	26	28
	Input power	KW	6.98	7.94	8.81
	EER / SEER		3.12 / 6.2	3.22 / 6.2	3.15 / 6.1
Heating	Capacity	KW	25	28.5	31.5
	Input power	KW	6.33	7.17	8.14
	COP / SCOP		3.95 / 4.1	3.97 / 4.1	3.87 / 4.0
Indoor unit	Dimensions (L-A-P)	mm	1465 × 448 × 811	1465 × 448 × 811	1465 × 448 × 811
	Net weight	Kg	102	102	102
	Dimensions with packaging (L-A-P)	mm	1515 × 580 × 885	1515 × 580 × 885	1515 × 580 × 885
	Weight with packaging	Kg	113	113	113
	Air flow (Min-Max)	m ³ /h	2600 - 4400	2900 - 4800	2900 - 4800
	Sound pressure (Min-Max)	dB(A)	46 - 51	48 -52	48 -52
	Available static pressure	Pa	0 - 150	0 - 150	0 - 150
Outdoor unit	Dimensions (L-A-P)	mm	1014 × 1430 × 450	1120 × 1549 × 528	1120 × 1549 × 528
	Net weight	Kg	112.7	142	154
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	Air flow	m ³ /h	8000	8000	9000
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	Compressor type		DC	DC	DC
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	Gas line	Ø inches(mm)	1" (25.4)	1" (25.4)	1 1/8" (28.6)
	Pipe length with pre-charge	m	5	5	5
	Max. line length	m	60	60	60
	Refrigerant increase	g/m	110	110	110
	Max. level difference (outdoor up)	m	30	30	30
	Max. level difference (outdoor down)	m	20	20	20
Refrigerant gas	Refrigerant type		R410A	R410A	R410A
	Refrigerant charge	Kg	6.1	8	8
Electrical Connections	Power supply Indoor unit	N° cables /	3*2.5 mm ²	3*2.5 mm ²	3*2.5 mm ²
	Power supply Outdoor unit	N° cables /	5*6 mm ²	5*6 mm ²	5*6 mm ²
	Indoor-outdoor interconnection	N° cables /	3*0.75 mm ²	3*0.75 mm ²	3*0.75 mm ²
Operating limits	Indoor temperature (Min / Max)	Refrig. °C	16 / 32	16 / 32	16 / 32
		Haet. °C B.S.	16 / 32	16 / 32	16 / 32
	Outdoor temperature (Min / Max)	Refrig. °C	-5 / 55	-5 / 55	-5 / 55
		Heat. °C B.U.	-20 / 30	-20 / 30	-20 / 30

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	Refrigerant increase	g/m	160	160	180 / 210
	Max. level difference (outdoor up)	m	90	90	90
	Max. level difference (outdoor down)	m	110	110	110
Refrigerant gas	Refrigerant type		R410A	R410A	R410A
	Refrigerant charge	Kg	14	14	16
Electrical Connections	Power supply Indoor unit	N° cables / section	3*2.5 mm ²	3*2.5 mm ²	3*2.5 mm ²
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Operating limits	Indoor temperature (Min / Max)	Refrig. °C B.U.	16 / 32	16 / 32	16 / 32
		Heat. °C B.S.	16 / 32	16 / 32	16 / 32
	Outdoor temperature (Min / Max)	Refrig. °C B.S.	-5 / 55	-5 / 55	-5 / 55
		Heat. °C B.U.	-20 / 30	-20 / 30	-20 / 30