



Direct expansion coil module type MVX-DX

Direct expansion coil module

Composition

- Battery with copper tubes and aluminium fins, mounted on sliding rails
- Integrated drop separator (separator pressure loss see curves). See the datasheet MVX-BF for the pressure loss graph
- Integrated condensation tray mounted on sliding rails
- Positioning of the module: horizontal
- Supplied as a separate component, unmounted; factory mounted upon request

Connections of the battery

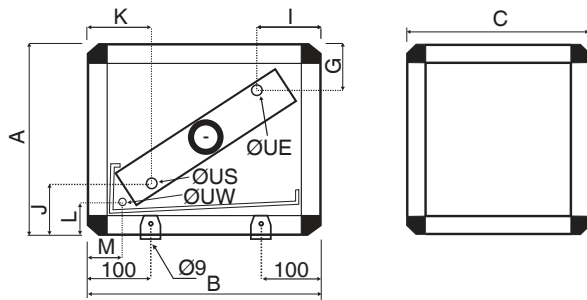
- Intake: male, by welding (expansion valve not supplied)
- Exhaust: male tube, welding
- Condensates: hydraulic mail piping in steel tube at gas thread
- Connection side: on the right, in the sense of the air flow direction (on the left on request)

Selection table	
Type	V(l)
MVX-4DX	1
MVX-5DX	1,9
MVX-6DX	3,1
MVX-7DX	4,6
MVX-8DX	7,2
MVX-9DX	10,6

Selection table cooling									
	Tev [°C]	Ta,i [°C]	*	Qv,a [m³/h]					
			ΔP [Pa]	400	600	800	1000	1200	1300
				20	38	59	85	112	123
MVX-4 DX	7	32/40	P [kW]/ Ta,o - RH [°C - %]	3,37/14,6-82	4,08/17,0-78	4,47/18,7-76	4,62/20,0-75	4,58/21-74	4,6/21,5-75
			Qv,R410A [l/h] / Dp,R410A [kPa]	68/10,7	82/15,2	90/17,9	93/18,9	93/18,6	93/19
		27/50	P [kW]/ Ta,o - RH [°C - %]	2,72/13,5-86	3,28/15,5-83	3,6/16,8-82	3,73/17,8-81	3,73/18,6-80	3,69/19,0-80
			Qv,R410A [l/h] / Dp,R410A [kPa]	55/7,3	66/10,2	73/12,1	75/12,9	75/12,9	75/12,9
		25/50	P [kW]/ Ta,o - RH [°C - %]	2,23/13,0-85	2,63/14,8-83	2,83/16,0-81	2,86/16,9-81	2,89/17,6-79	2,99/17,9-77
			Qv,R410A [l/h] / Dp,R410A [kPa]	45/5,1	53/6,9	57/7,8	58/8	58/8,1	60/8,7
	5	32/40	P [kW]/ Ta,o - RH [°C - %]	3,77/13,2-82	4,64/15,8-79	5,17/17,7-77	5,45/19,0-75	5,53/20,2-74	5,51/20,6-74
			Qv,R410A [l/h] / Dp,R410A [kPa]	76/13,9	94/20,2	105/24,6	110/27	112/27,7	112/27,5
		27/50	P [kW]/ Ta,o - RH [°C - %]	3,12/12,1-86	3,84/14,2-84	4,29/15,7-82	4,55/16,9-81	4,66/17,7-80	4,67/18,1-80
			Qv,R410A [l/h] / Dp,R410A [kPa]	63/9,9	78/14,3	87/17,5	92/19,5	95/20,4	95/20
		25/50	P [kW]/ Ta,o - RH [°C - %]	2,63/11,6-86	3,19/13,5-83	3,52/14,9-82	3,67/15,9-81	3,71/16,7-80	3,68/17,1-80
			Qv,R410A [l/h] / Dp,R410A [kPa]	53/7,3	65/10,3	71/12,3	74/13,3	75/13,4	75/13,3
MVX-5 DX	7	32/40	*	1000	1200	1400	1600	1800	2000
			ΔP [Pa]	56	76	96	118	139	162
			P [kW]/ Ta,o - RH [°C - %]	8,1/15-82	8,92/16-81	9,45/16,9-80	9,83/17,8-79	10,1/18,5-78	10,2/19,2-77
	5	27/50	Qv,R410A [l/h] / Dp,R410A [kPa]	162/12,9	180/15,5	190/17,3	198/18,5	203/19,4	206/19,9
			P [kW]/ Ta,o - RH [°C - %]	6,59/13,7-86	7,14/14,7-85	7,57/15,4-84	7,88/16,1-83	8,09/16,7-83	8,21/17,2-82
			Qv,R410A [l/h] / Dp,R410A [kPa]	133/9	144/10,4	152/11,6	159/12,4	163/13	166/13,4
	5	25/50	P [kW]/ Ta,o - RH [°C - %]	5,37/12,2-86	5,76/14-85	6,04/14,7-84	6,22/15,3-83	6,32/15,9-83	6,34/16,3-82
			Qv,R410A [l/h] / Dp,R410A [kPa]	108/6,2	116/7,1	122/7,7	125/8,1	127/8,3	128/8,4
	5	32/40	P [kW]/ Ta,o - RH [°C - %]	9,21/13,4-83	10,1/14,7-81	10,8/15,7-80	11,3/16,6-79	11,7/17,4-78	12,1/18,1-77
			Qv,R410A [l/h] / Dp,R410A [kPa]	187/17,5	204/20,6	218/23,2	229/25,3	237/26,9	243/28,1
	5	27/50	P [kW]/ Ta,o - RH [°C - %]	7,6/12,3-87	8,32/13,4-86	8,89/14,2-85	9,34/14,9-84	9,69/15,6-83	9,95/16,1-83
			Qv,R410A [l/h] / Dp,R410A [kPa]	154/12,3	168/14,5	180/16,4	189/17,9	196/19,1	202/20,1
	5	25/50	P [kW]/ Ta,o - RH [°C - %]	6,39/11,8-86	6,94/12,7-85	7,36/13,5-84	7,68/14,2-83	7,91/14,8-83	8,06/15,3-82
			Qv,R410A [l/h] / Dp,R410A [kPa]	129/9	141/10,5	149/11,7	156/12,6	160/13,3	163/13,7
MVX-6 DX	7	32/40	*	1400	1800	2200	2600	3000	3200
			ΔP [Pa]	46	68	94	121	149	163
			P [kW]/ Ta,o - RH [°C - %]	12,3/13,9-83	14/15,5-81	15,2/16,8-80	15,9/17,8-79	16,4/18,7-78	16,5/19,1-77
	5	27/50	Qv,R410A [l/h] / Dp,R410A [kPa]	249/12,9	282/16,1	305/18,6	321/20,4	331/21,5	333/21,8
			P [kW]/ Ta,o - RH [°C - %]	9,93/13,87	11,2/14,3-85	12,1/15,3-84	12,8/16,1-83	13,2/16,8-83	13,3/17,1-82
			Qv,R410A [l/h] / Dp,R410A [kPa]	200/8,7	226/10,8	245/12,5	258/13,7	266/14,5	268/14,7
	5	25/50	P [kW]/ Ta,o - RH [°C - %]	8,15/12,5-86	9,1/13,7-85	9,73/14,6-84	10,1/15,4-83	10,3/16-83	10,3/16,3-82
			Qv,R410A [l/h] / Dp,R410A [kPa]	164/6,1	183/7,4	196/8,4	204/9	207/9,3	208/9,3
	5	32/40	P [kW]/ Ta,o - RH [°C - %]	13,8/12,5-84	15,7/14,2-82	17,2/15,5-80	18,3/16,7-79	19,1/17,6-78	19,3/18,1-77
			Qv,R410A [l/h] / Dp,R410A [kPa]	279/16,6	319/21,1	349/24,9	371/27,8	386/29,9	392/30,7
	5	27/50	P [kW]/ Ta,o - RH [°C - %]	11,4/11,5-88	13/12,9-86	13,7/13,9-86	15,2/15-84	15,8/15,7-83	16,1/16,1-83
			Qv,R410A [l/h] / Dp,R410A [kPa]	230/11,8	263/15	263/15	307/19,8	321/21,4	326/22
	5	25/50	P [kW]/ Ta,o - RH [°C - %]	9,61/11,1-87	10,9/12,4-85	11,8/13,4-84	12,5/14,2-83	12,9/14,9-83	13,1/15,2-82
			Qv,R410A [l/h] / Dp,R410A [kPa]	195/8,7	220/10,9	239/12,6	253/13,9	262/14,8	264/15,1
MVX-7 DX	7	32/40	*	2000	2500	3000	3500	4000	4500
			ΔP [Pa]	41	59	79	102	126	152
			P [kW]/ Ta,o - RH [°C - %]	18,2/13,5-84	20,5/14,9-82	22,2/16-80	23,5/17-79	24,4/17,9-78	25,1/18,9-77
	5	27/50	Qv,R410A [l/h] / Dp,R410A [kPa]	385/17,7	432/21,8	469/25,3	496/28	515/29,9	527/31,2
			P [kW]/ Ta,o - RH [°C - %]	14,7/12,6-87	16,5/13,7-86	17,9/14,7-85	19,1/15,4-84	19,7/16,1-83	20,4/16,9-82
			Qv,R410A [l/h] / Dp,R410A [kPa]	311/12	348/14,8	378/17,1	400/19	416/20,3	426/21,3
	5	25/50	P [kW]/ Ta,o - RH [°C - %]	12,2/12,2-87	13,5/13,2-85	14,5/14,8-84	15,2/14,7-84	15,6/15,3-83	15,9/15,9-83
			Qv,R410A [l/h] / Dp,R410A [kPa]	256/8,5	285/10,3	306/11,7	320/12,7	330/13,4	335/13,8
	5	32/40	P [kW]/ Ta,o - RH [°C - %]	20,3/12,0-85	22,9/13,5-83	25,1/14,8-81	26,7/15,8-80	27,9/16,8-79	28,8/17,6-78
			Qv,R410A [l/h] / Dp,R410A [kPa]	429/22,6	486/28,3	531/33,2	566/37,2	592/40,4	612/42,8
	5	27/50	P [kW]/ Ta,o - RH [°C - %]	16,8/11,1-88	19,1/12,4-87	20,8/13,4-85	22,2/14,2-84	23,3/15,0-84	24,1/15,6-83
			Qv,R410A [l/h] / Dp,R410A [kPa]	356/16,1	403/20,1	440/23,6	470/26,6	493/29	511/30,9
	5	25/50	P [kW]/ Ta,o - RH [°C - %]	14,2/10,7-87	16,1/11,8-86	17,4/12,8-85	18,4/13,5-84	19,2/14,2-83	19,7/14,8-83
			Qv,R410A [l/h] / Dp,R410A [kPa]	302/12	339/14,8	368/17,1	390/19	407/20,5	418/21,6
MVX-8 DX	7	32/40	*	3000	4000	5000	6000	7000	7400
			ΔP [Pa]	38	61	89	119	151	162
			P [kW]/ Ta,o - RH [°C - %]	28/13,1-84	32,6/15-82	35,8/16,4-80	38/17,6-79	39,3/18,5-78	39,6/18,9-77
	5	27/50	Qv,R410A [l/h] / Dp,R410A [kPa]	564/19,4	657/25,4	722/30,2	766/33,6	792/35,6	797/36,1
			P [kW]/ Ta,o - RH [°C - %]	22,6/12,3-88	26,3/13,8-86	28,9/14,9-84	30,8/15,8-83	31,9/16,6-83	32,2/16,9-82
			Qv,R410A [l/h] / Dp,R410A [kPa]	456/13,2	530/17,3	583/20,5	620/22,9	643/24,5	649/24,9
	5	25/50	P [kW]/ Ta,o - RH [°C - %]	18,7/11,9-87	21,5/13,2-85	23,4/14,3-84	24,5/15,1-83	25,1/15,8-83	25,1/15,8-83
			Qv,R410A [l/h] / Dp,R410A [kPa]	378/9,4	434/12	471/14	495/15,3	506/15,9	506/15,9
	5	32/40	P [kW]/ Ta,o - RH [°C - %]	31/11,7-85	36,4/13,6-82	40,4/15,2-80	43,3/16,4-79	45,2/17,5-78	45,7/17,9-78
			Qv,R410A [l/h] / Dp,R410A [kPa]	628/24,6	738/32,9	819/39,8	877/45	916/48,7	927/49,7
	5	27/50	P [kW]/ Ta,o - RH [°C - %]	25,7/10,8-89	30,2/12,4-86	33,6/13,7-85	36,1/14,7-84	37,8/15,6-83	38,4/15,9-83
			Qv,R410A [l/h] / Dp,R410A [kPa]	521/17,6	612/23,5	680/28,5	731/32,4	766/35,3	777/36,2
	5	25/50	P [kW]/ Ta,o - RH [°C - %]	21,9/10,4-88	25,5/11,9-86	28,1/13-84	29,9/14-83	31,1/14,7-83	31,4/15-82
			Qv,R410A [l/h] / Dp,R410A [kPa]	443/13,1	516/17,3	568/20,6	605/23,1	630/24,7	636/25,2
MVX-9 DX	7	32/40	*	6000	7000	8000	9000	10000	11000
			ΔP [Pa]	64	82	101	122	145	172
			P [kW]/ Ta,o - RH [°C - %]	48,5/15,0-82	51,9/16,0-80	54,5/16,9-79	56,4/17,6-79	57,8/18,3-78	58,6/18,9-77
	5	27/50	Qv,R410A [l/h] / Dp,R410A [kPa]	978/26	1046/29,3	1099/32	1137/34,1	1164/35,6	1180/36,5
			P [kW]/ Ta,o - RH [°C - %]	39,2/13,9-86	41,9/14,6-85	44,1/15,3-84	45,7/15,9-83	46,9/16,4-83	47,7/16,9-82
			Qv,R410A [l/h] / Dp,R410A [kPa]	790/17,7	845/19,9	888/21,8	921/23,3	945/24,4	961/25,1
	5	25/50	P [kW]/ Ta,o - RH [°C - %]	32/13,3-85	34/14,0-84	35,4/14,6-84	36,4/15,2-83	37,1/15,6-83	37,3/16,1-82
			Qv,R410A [l/h] / Dp,R410A [kPa]	646/12,3	685/13,7	714/14,7	734/15,5	747/16	752/16,2
	5	32/40	P [kW]/ Ta,o - RH [°C - %]	54,2/13,7-82	58,4/14,8-81	61,7/15,7-80	64,3/16,5-79	66,3/17,3-78	67,7/17,9-77
			Qv,R410A [l/h] / Dp,R410A [kPa]	1099/33,7	1183/38,4	1250/42,5	13,3/45,8	1343/48,3	1372/50,2
	5	27/50	P [kW]/ Ta,o - RH [°C - %]	45/12,5-86	48,5/13,4-85	51,3/14,1-84	53,6/14,8-84	55,4/15,4-83	56,8/15,9-83
			Qv,R410A [l/h] / Dp,R410A [kPa]	912/24	982/27,5	1040/30,5	1086/33	1123/35	1151/36,6
	5	25/50	P [kW]/ Ta,o - RH [°C - %]	37,9/12,0-86	40,6/12,7-85	42,7/13,4-84	44,4/14-83	45,6/14,6-83	46,5/15,1-82
			Qv,R410A [l/h] / Dp,R410A [kPa]	768/17,6	823/19,9	866/21,9	899/23,4	924/24,6	942/25,5

- Tev = Evaporation temperature R410A
- Ta,i = Temperature air before the coil
- P = Total power
- Ta,o = Temperature air

Fan casings



Dimensions													
	A [mm]	B [mm]	C [mm]	G [mm]	I [mm]	J [mm]	K [mm]	L [mm]	M [mm]	ØUE [mm]	ØUS [mm]	ØW [mm]	[kg]
MVX-DX 4	445	545	445	115	105	135	90	75	75	12	16	1/2	32
MVX-DX 5	545	545	545	95	140	130	90	75	75	18	28	1/2	40
MVX-DX 6	645	645	645	135	175	135	90	75	75	18	28	1/2	55
MVX-DX 7	745	745	745	135	155	140	95	75	75	22	35	1/2	77
MVX-DX 8	845	845	970	145	185	150	110	75	75	28	42	1/2	107
MVX-DX 9	945	945	1170	145	175	150	110	75	75	28	42	1/2	140