

Condensing Unit

MCU Series - Bitzer semi-hermetic compressor



CONDENSING
UNITS

MCU SERIES

R-404A

-35°C / +5°C



Bitzer semi-hermetic reciprocating compressor⁽¹⁾ offer extended application range, high cooling capacity and minimum energy requirement.

⁽¹⁾ Other brand compressors are available on request.

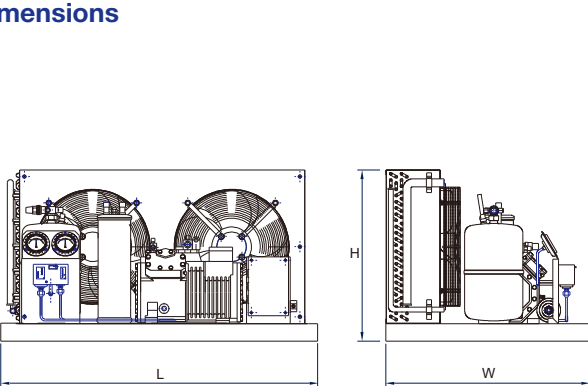


Equipped with high quality components (liquid receiver, filter drier, pressure switch, oil separator, etc.) for longer service life, minimum maintenance needs.

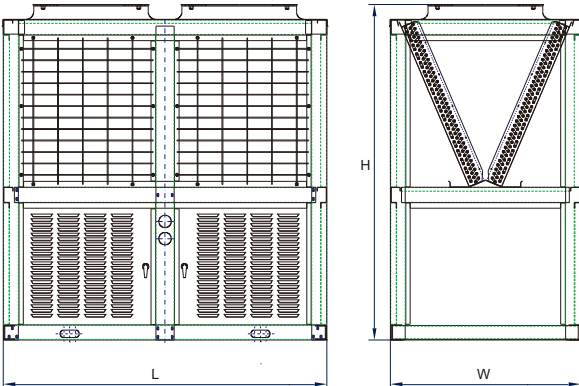


Air cooled condenser consist of copper tubes and anti-corrosion hydrophilic-coated aluminum fins to provide optimum heat exchange capability.

Dimensions



MCU-3M to MCU-20M
MCU-2L to MCU-18L



MCUV-22M to MCVU-50M
MCUV-23L to MCVU-44L

Condensing Unit

MCU Series - Bitzer semi-hermetic compressor

Bitzer semi-hermetic compressor | Application -25°C / +7.5°C | R404A

Model	Compressor		Condenser	Fan dia. mm	Air flow m³/h	Power supply	Fan power W	Suction	Liquid
	Model	HP	Condenser model						
MCU-3M	2DES-3Y	3	FNH-15/42	2 x 400	2 x 3100	380V-3F-50Hz	2 x 180	22	16
MCU-5M	4FES-5Y	5	FNH-19/52	2 x 400	2 x 3100	380V-3F-50Hz	2 x 180	22	16
MCU-6M	4EES-6Y	6	FNH-25/70	2 x 450	2 x 4500	380V-3F-50Hz	2 x 250	28	16
MCU-7M	4DES-7Y	7	FNH-28/80	2 x 450	2 x 4500	380V-3F-50Hz	2 x 250	28	22
MCU-9M	4CES-9Y	9	FNH-35/100	2 x 500	2 x 5300	380V-3F-50Hz	2 x 449	28	22
MCU-10M	4VES-10Y	10	FNH-42/120	4 x 400	4 x 3100	380V-3F-50Hz	4 x 180	28	22
MCU-12M	4TES-12Y	12	FNH-47/135	4 x 400	4 x 3100	380V-3F-50Hz	4 x 180	35	28
MCU-15M	4PES-15Y	15	FNH-53/150	4 x 450	4 x 4100	380V-3F-50Hz	4 x 250	42	28
MCU-20M	4NES-20Y	20	FNH-70/200	4 x 500	4 x 5300	380V-3F-50Hz	4 x 449	42	28
MCUV-22M	4JE-22Y	22	FNVB-83/240	3 x 550	3 x 7400	380V-3F-50Hz	3 x 670	42	28
MCUV-25M	4HE-25Y	25	FNVB-93/270	3 x 600	3 x 9100	380V-3F-50Hz	3 x 825	54	28
MCUV-30M	4GE-30Y	30	FNVB-104/300	3 x 630	3 x 9900	380V-3F-50Hz	3 x 937	54	28
MCUV-35M	6HE-35Y	35	FNVB-125/360	3 x 710	3 x 12650	380V-3F-50Hz	3 x 1494	54	35
MCUV-40M	6GE-40Y	40	FNVB-138/400	4 x 630	4 x 9900	380V-3F-50Hz	4 x 937	54	35
MCUV-50M	6FE-50Y	50	FNVB-166/480	4 x 710	4 x 12650	380V-3F-50Hz	4 x 1494	54	42

Model	Compressor		Cooling capacity at evaporating temperature, kW				Dimension, mm		
	Model	HP	+7.5°C	0°C	-10°C	-25°C	L	W	H
MCU-3M	2DES-3Y	3	12.89	9.92	6.78	3.45	1000	750	583
MCU-5M	4FES-5Y	5	17.95	13.73	9.34	4.81	1000	750	683
MCU-6M	4EES-6Y	6	22.70	17.30	11.70	5.94	1250	800	783
MCU-7M	4DES-7Y	7	26.50	20.30	13.76	7.06	1250	800	883
MCU-9M	4CES-9Y	9	33.30	25.40	17.16	8.69	1500	800	933
MCU-10M	4VES-10Y	10	35.30	26.70	17.71	8.57	1500	800	1083
MCU-12M	4TES-12Y	12	42.50	32.20	21.50	10.62	1200	900	1283
MCU-15M	4PES-15Y	15	49.00	36.90	24.40	11.66	1300	900	1283
MCU-20M	4NES-20Y	20	58.00	43.90	29.40	14.53	1400	900	1383
MCUV-22M	4JE-22Y	22	77.30	59.00	39.90	19.85	2500	1050	2145
MCUV-25M	4HE-25Y	25	74.70	57.40	39.10	19.93	2700	1000	1975
MCUV-30M	4GE-30Y	30	85.50	65.70	44.90	23.10	2700	1050	2145
MCUV-35M	6HE-35Y	35	109.70	84.20	57.50	29.30	2900	1100	2070
MCUV-40M	6GE-40Y	40	123.60	95.30	65.50	34.00	3550	1050	1975
MCUV-50M	6FE-50Y	50	149.90	115.90	80.00	41.70	3800	1100	2070

(1) Condensation temperature +45°C.

Bitzer semi-hermetic compressor | Application -35°C / 0°C | R404A

Model	Compressor		Condenser	Fan dia. mm	Air flow m³/h	Power supply	Fan power W	Suction	Liquid
	Model	HP	Condenser model						
MCU-2L	2DES-2Y	2	FNH-12/33	2 x 400	2 x 3100	380V-3F-50Hz	2 x 180	22	16
MCU-3L	4FES-3Y	3	FNH-15/42	2 x 400	2 x 3100	380V-3F-50Hz	2 x 180	22	16
MCU-4L	4EES-4Y	4	FNH-19/52	2 x 400	2 x 3100	380V-3F-50Hz	2 x 180	28	16
MCU-5L	4DES-5Y	5	FNH-21/60	2 x 450	2 x 4500	380V-3F-50Hz	2 x 250	28	22
MCU-6L	4CES-6Y	6	FNH-25/70	2 x 450	2 x 4500	380V-3F-50Hz	2 x 250	28	22
MCU-7L	4VES-7Y	7	FNH-28/80	2 x 450	2 x 4500	380V-3F-50Hz	2 x 250	28	22
MCU-9L	4TES-9Y	9	FNH-35/100	2 x 500	2 x 5300	380V-3F-50Hz	2 x 449	35	28
MCU-12L	4PES-12Y	12	FNH-47/135	4 x 400	4 x 3100	380V-3F-50Hz	4 x 180	35	28
MCU-14L	4NES-14Y	14	FNH-53/150	4 x 450	4 x 4100	380V-3F-50Hz	4 x 250	35	28
MCU-15L	4JE-15Y	15	FNH-59/170	4 x 450	4 x 4100	380V-3F-50Hz	4 x 250	42	28
MCU-18L	4HE-18Y	18	FNH-70/200	4 x 500	4 x 5300	380V-3F-50Hz	4 x 449	42	28
MCUV-23L	4GE-23Y	23	FNVB-83/240	3 x 550	3 x 7400	380V-3F-50Hz	3 x 670	42	28
MCUV-28L	6HE-28Y	28	FNVB-104/300	3 x 630	3 x 9900	380V-3F-50Hz	3 x 937	54	35
MCUV-34L	6GE-34Y	34	FNVB-125/360	3 x 710	3 x 12650	380V-3F-50Hz	3 x 1494	54	35
MCUV-44L	6FE-44Y	44	FNVB-166/480	4 x 710	4 x 12650	380V-3F-50Hz	4 x 1494	54	42

Model	Compressor		Cooling capacity at evaporating temperature, kW				Dimension, mm		
	Model	HP	0°C	-10°C	-25°C	-35°C	L	W	H
MCU-2L	2DES-2Y	2	9.92	6.78	3.45	1.93	1000	750	583
MCU-3L	4FES-3Y	3	13.74	9.34	4.81	2.84	1000	750	583
MCU-4L	4EES-4Y	4	17.47	11.88	6.10	3.58	1000	750	683
MCU-5L	4DES-5Y	5	20.30	13.76	7.06	4.14	1250	750	683
MCU-6L	4CES-6Y	6	25.40	17.16	8.69	5.03	1250	800	783
MCU-7L	4VES-7Y	7	26.60	17.68	8.56	4.64	1250	800	883
MCU-9L	4TES-9Y	9	32.20	21.60	10.66	5.97	1500	800	933
MCU-12L	4PES-12Y	12	37.00	24.50	11.80	6.33	1200	900	1283
MCU-14L	4NES-14Y	14	43.90	29.30	14.47	8.09	1300	900	1283
MCU-15L	4JE-15Y	15	60.20	41.00	20.90	11.01	1300	900	1283
MCU-18L	4HE-18Y	18	58.10	39.80	20.60	12.01	1400	900	1383
MCUV-23L	4GE-23Y	23	67.00	46.20	24.30	14.49	2500	1000	1950
MCUV-28L	6HE-28Y	28	85.40	58.60	30.30	17.70	2700	1050	2145
MCUV-34L	6GE-34Y	34	98.30	68.30	36.60	22.20	2900	1100	2070
MCUV-44L	6FE-44Y	44	118.00	82.00	43.50	26.00	3800	1100	2070

(1) Condensation temperature +45°C.