

## General Benefits of System

- Energy saving ,higher efficient compare with other systems
- Short time for design and installation, can install water pipe in advance
- Easy to maintain
- Low operating cost
- More reliable

## Installation

### Attention on Installation Location

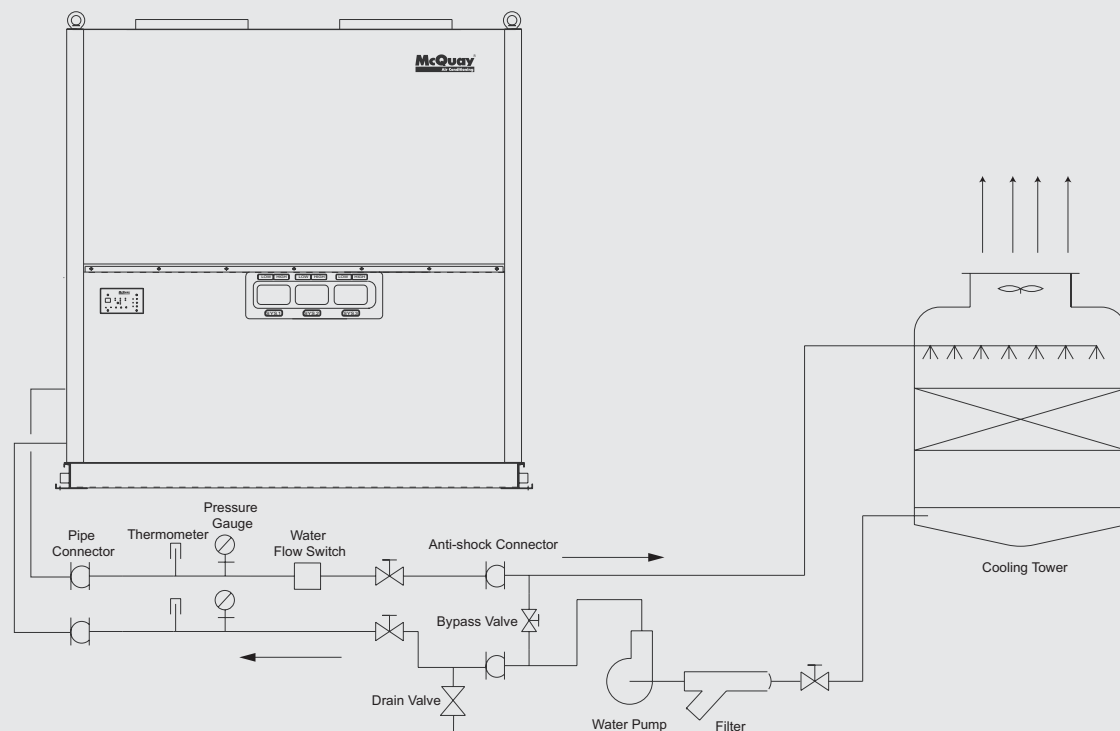
- Avoid installing the unit in damp and corrosive environment.
  - Please install the unit on a level concrete groundwork.
  - Space should be ventilated and easy to maintenance.
- Please refer to the Dimension Illustration for minimum installation.

- A rubber should be placed between the concrete groundwork and the unit to avoid vibration and noise.
- Avoid direct contact between unit/connecting pipe and wall/mounting ceiling.
- Please install the unit in a place that is insensitive to noise, such as stairways, elevator rooms, rest rooms, etc. Muffler can also be installed in the air duct if necessary.

## Water Pipe Connection

- All installation for piping must comply with local laws and regulations. Bends and vertical spans should be as less as possible.
- To maintain a constant condensing pressure and temperature, a 3-way valve can be used to accommodate the water flow. The valve has to be mounted to maintain that the water inlet temperature is 16°C at the condenser.
- To prevent water temperature from dropping too low, a temperature switch (27°C recommended) can be used to control the startup/shutdown of fan in the cooling tower.
- The condensate drainpipe is connected to the drain pan of the evaporator (The drain pan is attached to the bottom of the unit for emergency discharge only).

## Instillation & connection layout



## Features

The McQuay "SCROLL" MWCP water-cooled packaged units are designed for duct type air-conditioning system in commercial and industrial application. The MWCP water-cooled packaged unit has single or multiple hermetic compressors with independent refrigerant circuits. Each refrigerant circuit consists of a high efficiency condenser, a sealed strainer and capillary tubes. Every McQuay MWCP unit has been leak tested, evacuated and fully charged with refrigerant R407C at the factory.

### High Efficiency Hermetic Compliant Scroll Compressor

- Quiet operation.
- Excellent reliability with 70% fewer moving parts than comparably sized reciprocating compressors.
- Greater capability at handling liquid and debris in the system.
- High efficiency performance.

### Enhanced Copper Tubes Condenser

Extra-high efficiency is attained by special designed shell-and-tube condenser with "T" groove copper tube surfaces for superior refrigerant-water heat transfer.

### Anti-Corrosion Unit Casing

Unit casing is constructed of electro-galvanized steel sheet. Casing surface is finished with epoxy polyester powder coating. Therefore, units are suitable for both commercial and industrial application.

### Whisper- Quiet Operation

Each unit is divided into separate compartments such that compressor noise is kept away from the supply air stream. Internal insulation of 1/2 inch thick fiberglass and double blowers design further reduce noise level.

### Quality Assurance

Each unit is leak-tested, evacuated, fully charged with refrigerant and run tested in McQuay's ISO9001 certified factory.

MWCP

**McQuay**  
Air Conditioning

## WATER COOLED PACKAGE



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Dealer :

**McQuay**  
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**McQuay Water Cooled Packaged Unit Specifications**

MODEL		MWCP18A	MWCP30A	MWCP35A	MWCP55A	MWCP70A	MWCP75A	MWCP85A	MWCP100A	MWCP115A	MWCP125A	MWCP135A	MWCP145A	MWCP165A	MWCP185A	MWCP205A	
NOMINAL CAPACITY	Btu/h	54600	81900	110920	158000	226960	250850	279860	334470	375420	402730	460750	491460	525590	614334	679180	
	W	16000	24000	32500	46300	66500	73500	82000	98000	110000	118000	135000	144000	154000	180000	199000	
NOMINAL TOTAL INPUT POWER	kW	3.90	5.90	7.30	11.50	15.90	17.00	17.50	23.10	28.10	29.80	31.50	33.00	34.30	42.50	48.20	
ELECTRICAL HEATER	W	6000	9000	12000	21000	27000	36000	36000	42000	48000	48000	48000	48000	60000	55000	60000	
POWER SOURCE		380-415V/3N~/50Hz						380-415V/3N~/50Hz					380-415V/3N~/50Hz				
REFRIGERANT TYPE		R22						R22					R22				
AIR FLOW	l/s/cfm	800/1695	1167/2470	1638/3472	2250/4765	3000/6353	3778/8000	4027/8534	4722/10000	5500/11647	6111/12941	6111/12941	6833/14470	7333/15529	8000/16942	9167/19412	
EXTERNAL STATIC PRESSURE	Pa/ in.wg	80 (0)/ 0.3 (0)	100 (0)/0.4 (0)		150 (0)/0.5 (0)		200/0.8	200/0.8	250/1.0	250/1.0	250/1.0	300/1.18	300/1.18	350/1.38	350/1.38	350/1.38	
SOUND PRESSURE LEVEL	dB(A)	52	63	65	67	70	72	72	74	75	76	76	77	77	78	79	
UNIT DIMENSION	LENGTH	mm/in	1078/42	1078/42	1278/150	1722/68	1922/76	1962/77	1962/77	1962/77	2182/86	2182/86	2382/86	2382/86	2382/94	2632/103	3012/119
	WIDTH	mm/in	647/25	647/25	677/27	736/29	836/33	1060/42	1060/42	1060/42	1243/49	1243/49	1243/49	1243/49	1243/49	1243/49	1534/60
	HEIGHT	mm/in	1789 (2058)/ 70 (81)	1789 (2058)/ 70 (81)	1902 (2172)/ 75 (86)	1921 (2195)/ 76 (86)	2035 (2404)/ 80 (95)	1961/77	1961/77	1961/77	2040/80	2040/80	2040/80	2040/80	2040/80	2040/80	2083/82
PACKING DIMENSION	LENGTH	mm/in	1190/47	1190/47	1390/55	1810/71	2038/80	2050/81	2050/81	2050/81	2304/91	2304/91	2550/100	2550/100	2550/100	3032/119	3510/138
	WIDTH	mm/in	816/32	816/32	845/33	850/33	990/39	1265/50	1265/50	1265/50	1435/56	1435/56	1454/57	1454/57	1454/57	1454/57	1625/64
	HEIGHT	mm/in	2020/80	2020/80	2115/83	2160/85	2290/90	2213/87	2213/87	2213/87	2227/88	2227/88	2262/89	2262/89	2262/89	2262/89	2225/88
UNIT WEIGHT	kg/lb	205 (220)/ 451 (484)	235 (250)/ 517 (550)	280 (300)/ 616 (660)	455 (485)/ 1001 (1067)	610 (650)/ 1342 (1430)	720/1584	800/1760	930/2046	1010/2222	1030/2266	1225/2695	1235/2717	1250/2750	1350	1400/3081	
CONDENSATE DRAIN SIZE	mm/in	25.4/1	25.4/1	25.4/1	25.4/1	25.4/1	25.4/1	25.4/1			25.4/1	25.4/1	25.4/1	25.4/1	25.4/1		
WATER PIPE CONNECTION	TYPE	Female Thread						Female Thread					Female Thread				
	SIZE	mm/in	31.75/1.25	31.75/1.25	31.75/1.25	50.80/2.00	50.80/2.00	50.80/2.00	50.8/2.00	63.5/2.50	63.5/2.50	63.5/2.50	63.5/2.50	63.5/2.50	76.2/3.00	76.2/3.00	76.2/3.00
REFRIGERANT CHARGE	kg/lb	1.6/3.5	2.7/6.0	3.10/6.8	3.1+1.5/ 6.8+3.3	3.7*2/8.1*2	4.0*2/8.8*2	4.4*2/9.7*2	6.0*2+2.7/13.2*2+5.9	4.9*3/10.8*3	5.0*3/11.0*3	4.4*4/9.7*4	5.2*3+6.5/ 9.7*3+14.3	4.3*3+7.5/ 9.5*3+16.5	5.7*4+3.8/ 12.5*4+8.4	7.6*4+8.5/ 16.8*4+18.7	

**R 22**  
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**General Data**

MODEL		MWCP35AE	MWCP55AE	MWCP70AE	MWCP75AE	MWCP85AE	MWCP100AE	MWCP115AE	MWCP125AE	MWCP135AE	MWCP145AE	MWCP165AE	MWCP185AE	MWCP205AE		
NOMINAL CAPACITY	W	32000	46500	64000	73500	82000	95000	110000	118000	127000	144000	154000	180000	199000		
NOMINAL TOTAL INPUT POWER	kW	7.8	13.1	16.2	18.1	20	25.4	29.2	30	33	34.4	39	42	49.4		
ELECTRICAL HEATER	W	12000	21000	27000	36000	36000	42000	48000	48000	48000	60000	60000	55000	55000		
POWER SOURCE	V/Ph/Hz	380-415/3/50					380-415/3/50					380-415/3/50				
REFRIGERANT TYPE		R407C					R407C					R407C				
AIR FLOW	m³/h	5900	8100	10800	13600	14500	17000	19800	22000	22000	24600	26400	28800	33000		
EXTERNAL STATIC PRESSURE	Pa	100	150	150	200	200	250	250	250	300	300	350	350	350		
SOUND PRESSURE LEVEL	dB(A)	65	67	70	72	72	74	75	75	76	77	77	78	79		
UNIT DIMENSION	LENGTH	mm	1278	1722	1922	2000	2000	2000	2220	2220	2420	2420	2420	3002		
	WIDTH	mm	677	736	836	1060	1060	1060	1243	1243	1243	1243	1243	1534		
	HEIGHT	mm	1902	1921	2035	1989	1989	1989	2068	2068	2068	2068	2068	2083		
PACKING DIMENSION	LENGTH	mm	1320	1790	1990	2040	2040	2040	2250	2250	2450	2450	2450	3085		
	WIDTH	mm	720	780	895	1110	1110	1110	1290	1290	1290	1290	1290	1700		
	HEIGHT	mm	2090	2100	2230	2150	2150	2150	2240	2240	2240	2240	2240	2330		
UNIT WEIGHT	kg/lb	280	455	610	720	800	930	1010	1030	1225	1235	1250	1350	1400		
CONDENSATE DRAIN SIZE	mm/in	25.4/1	25.4/1	25.4/1	25.4/1	25.4/1	25.4/1	25.4/1	25.4/1	25.4/1	25.4/1	25.4/1	25.4/1	25.4/1		
WATER PIPE CONNECTION	TYPE	Female Thread					Female Thread					Female Thread				
	SIZE	mm/in	31.75/1.25	50.80/2.00	50.80/2.00	50.80/2.00	50.80/2.00	63.50/2.50	63.50/2.50	63.50/2.50	63.50/2.50	63.50/2.50	76.20/3.00	76.20/3.00	76.20/3.00	

**R407C**  
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NOTES:  
 1. ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.  
 2. NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW: COOLING 27°CDB/19°CWB INDOOR AND 30°C/35°C ENTERING/LEAVING WATER TEMPERATURE.  
 3. SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.