

## 3 Way Split Condensing Units

### 3 WAY SPLIT FOR ATEX II 2 G APPLICATIONS

#### Outdoor Units

The MCUA outdoor condensers are fitted with ATEX rated fans and motors. They have copper/copper coils and stainless steel cases as the norm but can be supplied with standard aluminium finned copper tubed coils if preferred.

The MMC compressor cabinets work in conjunction with the MCUA unit, they contain the compressor and all electrics. This cabinet is designed to be located within the safe area.

When using R407C refrigerant these units are suitable for applications with ambient temperatures up to 42°C. For high ambient applications, up to 55°C, the units are supplied with R134A refrigerant.



MCUA Condenser



MMC Compressor

#### Indoor Evaporator Units

There are several versions of evaporators suitable for matching with the MCUA/MMC split condensing units. Typical units are:

##### WM Wall Mounted

These are for high level wall mounting and have high level front discharge.



##### DXT or Cassettes

Suitable for either wall or ceiling mounted. Available in chassis and cased styles.



## Technical Information

### MMC Specification

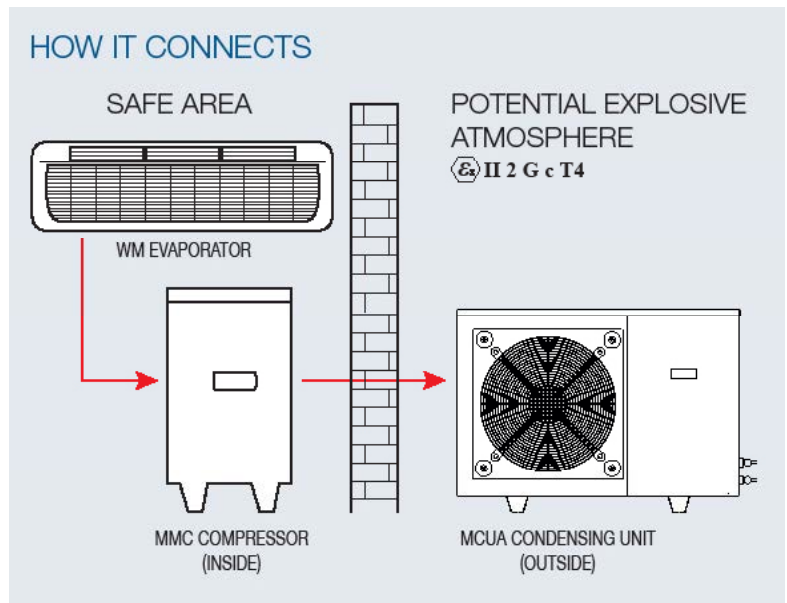
- Easy access for installation and service
- Suction and liquid service valves
- Expansion device (orifice)
- Low ambient start timer
- 3 minute delay timer / random start timer
- Contactor
- LP switch (auto)
- HP switch (auto)
- Up to 80m pipe runs  
(equivalent length including 20m lift available)
- MMC+ 50-200 (Scroll compressors)
- Evaporator pressure regulating valve

### Options

- Wall mounting kit
- Volt free relay / HP switch (with alarm output)
- Isolator
- Compressor jacket
- Noise attenuation kit
- 3Ph no neutral delta

### MCUA Specification

- Stainless steel case (316L)
- Copper to copper coil
- ATEX  $\text{Ex II 2 G c T4}$  rated fan
- Option for copper/aluminium condenser coil



### Typical System Matches

System Cooling Duties at 27°C air on and 55°C ambient using R134A refrigerant

CONDENSING UNIT	EVAPORATOR	COOLING DUTY (KW)
MCUA 90/MMC 90	DXT 90	5.15
	DXT 100	5.40
	WM100	5.3
MCUA 100/MMC 100	DXT 100	6.00
	WM 100	5.95
MCUA 165/MMC 165	DXT 120	8.80
	875 140	9.2
MCUA 180/MMC 180	875 140	10.5

System Cooling Duties at 27°C air on and 35°C ambient using R407C refrigerant

CONDENSING UNIT	EVAPORATOR	COOLING DUTY (KW)
MCUA 90/MMC 90	DXT 100	8.3
	DXT 120	8.5
	WM100	8.38
MCUA 100/MMC 100	DXT 120	9.5
	WM 100	9.29
MCUA 130/MMC 130	875 140	12.8
MCUA 150/MMC 150	875 140	13.9

**OTHER SYSTEM MATCHES ARE AVAILABLE ON REQUEST**

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TEV has earned management system accreditations – BSI 14001: 2015 Environmental Management and BSI 9001: 2015 Quality Management.



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