Downloadable document - things to know when commissioning an Ecodan

Before you start - Power the outdoor unit



At power on, warm up mode operates 4 hours & stops 30mins

Unit applies low frequency, low current power to the compressor

We recommend getting the unit wired asap to avoid any delays during commissioning

If the outdoor unit is powered but not connected to the FTC, this process can start without triggering operation



Minimum system water volume

Ecodan specification

Pipe length vs rqd. volume Minimum water 22mm Copper 28mm Copper pipe 35mm Copper pipe Model volume pipe (0.33 l/m) (0.55 l/m) (0.84 l/m) Inc. 5L indoor unit PUZ-WM50VHA 2L = 6m2L = 4m2L = 2.5m7L - 2L 9L - 4L PUZ-WM60VAA 4L = 12m4L = 7m4L = 5m12L – 7L 7L = 13m7L = 8mPUZ-WM85VAA NA PUZ-WM112VAA 16L - 11L NA 11L = 20m11L = 13mPUZ-HWM140(V-Y)HA 20L - 15L 15L = 27m15L = 18mNA

Water Quality

The water in a system should be clean and with a pH value of 6.5-8.0. The following are the maximum values; Iron/manganese : 0.5 mg/L Calcium : 100 mg/L Chlorine : 100 mg/L



Commissioning procedure & startup tips - cont'd

Adding Glycol



Concentration 10% 20% - 9°C Frost protection - 4ºC - 14ºC When filling a system from new with Glycol, the quantity to be added must be pre-mixed and tested to the correct frost protection level

It is recommended to mix the quantity at room temperature to ensure a good quality, even blend with water

It is important to ensure the system is not overdosed with glycol

Too much glycol can lead to a poor energy transfer as the properties of water's heat carrying capacity could be affected

25% glycol to 75% water giving a -12°C frost protection level is what we recommend

Outlined commissioning steps

Check flow and return connections Check orientation of pumps, filters and flow meters Open all isolating valves Check air charge in expansion vessels (1.3 bar) Fill & Pressurise primary circuit to 1.5 bar Release air from the system, on completion top up system Check for leaks Test the system



To see this cheat sheet and its attached documents, please visit https://mitsubishielectricuk.360learning.com/course/play/5f8479a240660a0b47c85ab8