

SCHEDULES

2548-RSP-XX-XX-SH-M-10XX3- PROCESS CHILLER SCHEDULE

Ref.	CH LG01, CH LG02 & CH LG03
Type	Packaged Air-Cooled Chiller
Location	Lower Ground Floor - Courtyard
Manufacturer	Mitsubishi Electric
Model	NX2-G06/NR/0082
Quantity	3no (Duty/Duty/Standby)
Compressor Type	Scroll Compressor
Flow Temperature	6°C
Return Temperature	12°C
External Ambient Temperatures	32°C db and 20°C wb (to be selected on 35°C db)
Chiller Duty	66 kW
Chilled Water Flow Rate	2.618 l/s
Buffer Vessel	N/A
Refrigerant Type	R454B
Main Electrical Supply	400V / 3Ø / 50Hz
Maximum Absorbed Current	55 A
Starting Current	175 A (could be reduced to 117A with the soft starter, subject to external conditions)
Dimensions H x W x D (mm)	1865x 1195 x 2395
Weight (wet)	780 kg
Sound Power Level (at unit)	80 dB(A)

Notes:

1. The chiller shall be supplied complete with low head dual pump run and stanby.
2. The chiller shall be provided with all necessary ancillaries and controls.
3. The chiller shall be mounted on a bigfoot support system, as detailed by the structural engineer.
4. The chiller shall be provided with Internal anti-vibration dampers on the compressors, mufflers, dampers on refrigerant pipes and acoustically lagged compressor enclosure.
5. The chiller shall have the following additional options:
 - a. Noise Reduction Kit
 - b. Unit controller Compact LCD Display
 - c. Phase Sequence/Failure Protection Relay
 - d. Compressor operating Signal Output Contacts
 - e. Auxiliary Input 4-20mA Signal Adjust chilled water set point.
 - f. Demand limiting input
 - g. Compressor Electronic Soft-starter.
 - h. Serial card for BACNet over IP Protocols
 - i. E-coating of microchannel condenser coils
 - j. Modifications to Low Ambient Operation
 - k. Tout EV >=5C e <15C
 - l. Electronic expansion valves
 - m. Liquid line solenoid valve
 - n. Refrigerant High- and Low-Pressure Gauges
 - o. Compressor Suction and discharge valves

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- p. Dual Pressure Relief valves
 - q. Evaporator Differential Pressure Switch
 - r. Compressor Acoustic Enclosures
 - s. Extra Evaporator Insulation for low leaving solution temperatures $>-8^{\circ}\text{C}$
 - t. Trace Heating on unit water pipework, pumps and tank.
 - u. Anti-Intrusion Grilles
 - v. Flanged Water connections
 - w. CHW flow switch (supplied loose for contractor to install)
 - x. "Y" water filter
6. The Chillers shall be as manufactured by Mitsubishi Electric Ltd, or equal and approved. Mitsubishi equipment shall be supplied and commissioned by Pacair UK. (Contact Nick Ryman, email: [REDACTED], [REDACTED]).