

Model	MWS 1000LTM-S1	
Item No.	503-100-005	
Rating condition	19/16 °C db/wb	7/6 °C db/wb
Nominal EWT/LWT °C	20 / 62	15 / 62
Nominal Heating Capacity kW *1	98	74
Input Power kW *1	26.4	28.0
COP *1	3.71	3.63
Unit Controller	UC8 (x2)	
Design HEX differential °C	42	47
Water Flow rate l/min. *1	33.4	22.6
Min./Max. Inlet Water temp. °C (Heating)	2 / 35	
Min. Operating Ambient Air temp. °C	-10	
Max. Water Temperature °C	62	
Entering Pressure Drop psi *2	2	1
Heat Exchanger	Thermoshell® (x4)	
Desuperheater	Thermoshell® (x2)	
Max. Operating Pressure of pump kPa	1000 (145psi)	
Electronic Expansion Valves	4	
Refrigerant	R32	
Refrigerant Charge kg	6.2 / sys.	
Compressor type	Fixed scroll (tandem) (x2)	
Compressor technology	Liquid injection	
Compressor oil type	POE-46 (NXG5020 or equivalent)	
Power supply *3	3 ph. 400 V ac 50 Hz + N + E	
Compressor overload setting A	15	
Running current *1 A	40 / 48 / 40	44 / 50 / 44
Max. Running Current A/ph.	64	64
RCD type recommended	type A, 30mA, 3 pole	
Water connections	1" BSP male (x2)	
Sound Power *4 (SWL) dB(A)	78	
Sound Pressure @ 3m (SPL) dB(A)	62	
Fan type	3 speed Axial 500mm (x4)	
Pump type	Integrated BLDC (x2)	
Max. Head Delivery of Pump m	12	
Communication Options	BMS / Modbus	
Design technology	Anti-thermosyphon system	
Storage tank requirement	Thermally stratified	
Net weight (excl. water) kg	684	
Shipping weight kg	715	

*1 At rating conditions above

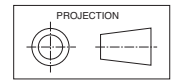
*2 Pressure drop at Water Flow rate and rating conditions above.

*3 Voltage range: 380–415V

*4 Radiated. EN 12102-1:2017

190XX

DIMENSIONS (mm)

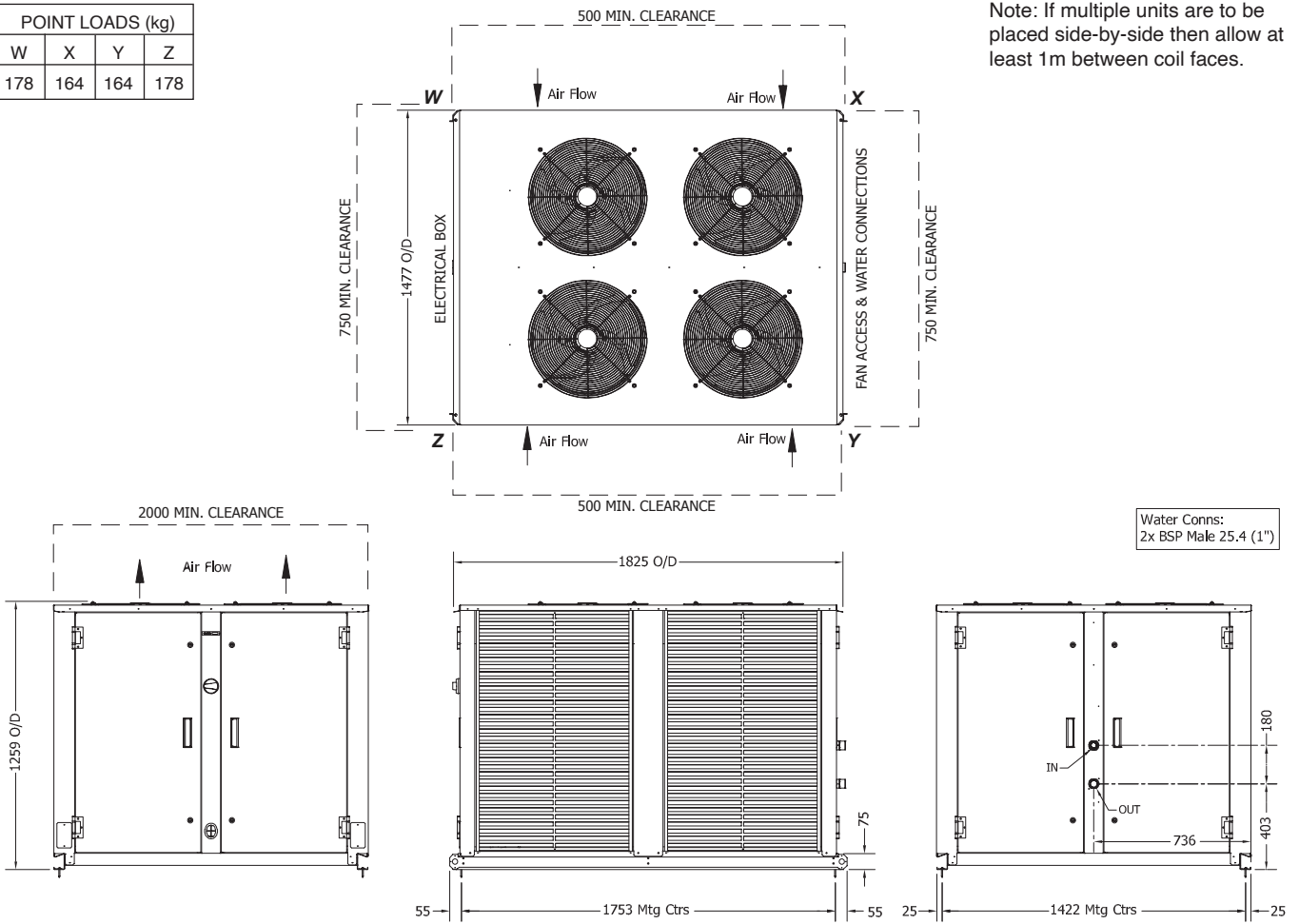


Not to Scale

MWS 1000LTM

POINT LOADS (kg)			
W	X	Y	Z
178	164	164	178

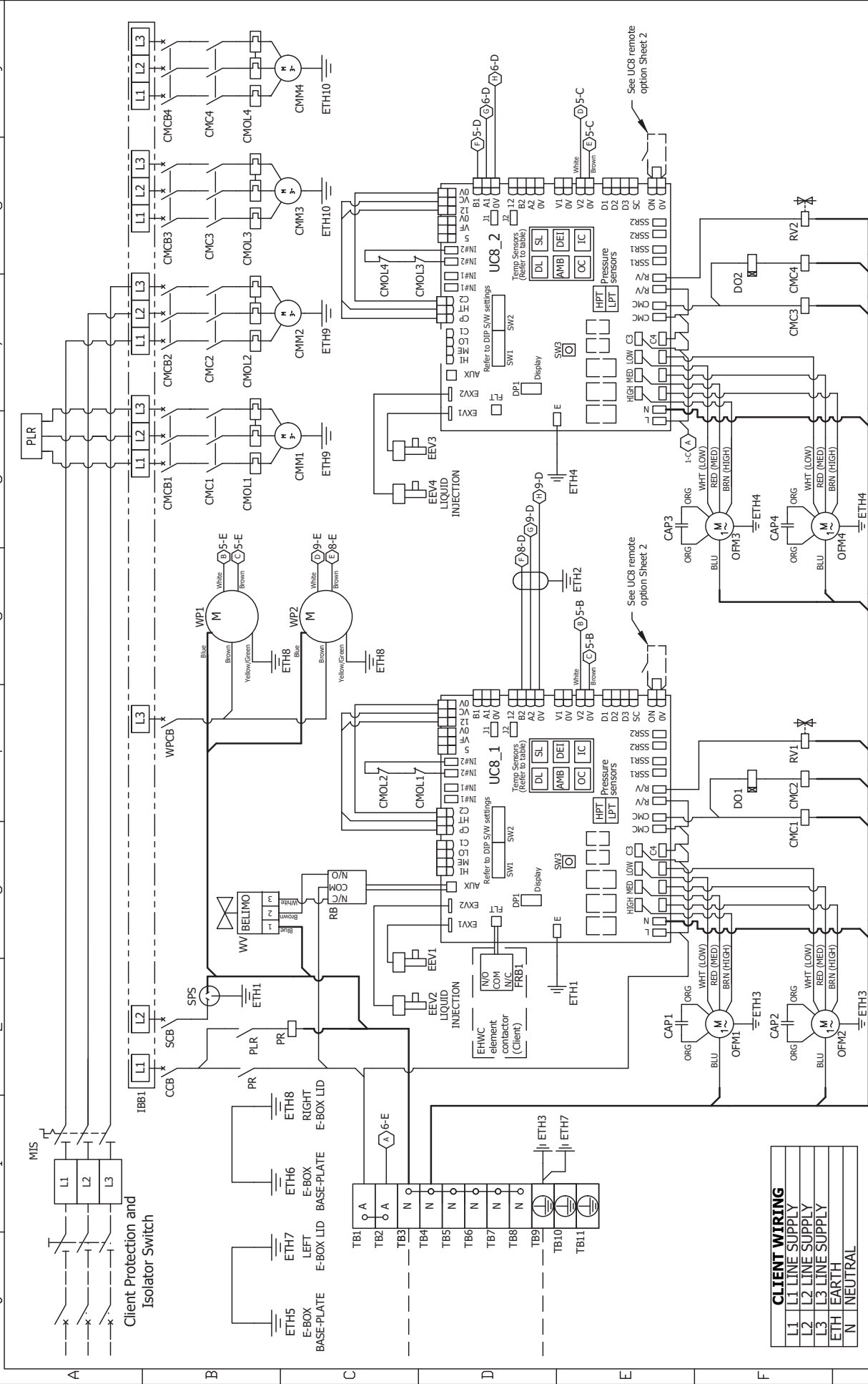
Note: If multiple units are to be placed side-by-side then allow at least 1m between coil faces.



NOTE

Specifications are subject to change without notice due to the manufacturer's ongoing research and development programme.

ELECTRICAL



REV A	DESCRIPTION INITIAL RELEASE	ECON	DATE	APVD
Client Wiring				
Drawn: P. L. Approved: <i>LC</i>		Date: 08/09/23		
Title: MWS 1000L UC8 3P R32 Electrical Wiring Schematic				
Drawing No: 291-003-553 SHEET 1 OF 2		Rev: A		

Sensors and Transducer
*Refer Table (Sheet 2)

CLIENT WIRING	
L1	L1 LINE SUPPLY
L2	L2 LINE SUPPLY
L3	L3 LINE SUPPLY
ETH	EARTH
N	NEUTRAL

--	--	--	--	--	--	--	--	--	--

UC8 (1) DIP switch settings	
DIP switch	+ On/Off +
5, 7, 10, 11, 12, 13, 15	On
Others	Off

UC8 (2) DIP switch settings	
DIP switch	+ On/Off +
5, 6, 7, 10, 11, 12, 13, 15	On
Others	Off

UC8 Sensors (S) / Transducers (T)		
Name	Type	Colour
DL	Discharge Temp	S Red
SL	Suction Temp	S White
AMB	Tank Water (Sys 1)	S Yellow
DEI	De-ice Temp	S Blue
OC	Water Out	S Yellow
IC	Water In	S Blue
HPT	High Pressure	T
LPT	Suction Pressure	T

REV	DESCRIPTION	ECN	DATE	APVD
A	INITIAL RELEASE			

	©temperzone Ltd 2023	Client Wiring	Drawn: P.L.	Date: 08/09/23	Title: MWS 1000L UC8 3P R32 Electrical Wiring Schematic	Drawing No: 291-003-553	Rev: A
--	----------------------	---------------	-------------	----------------	---	-------------------------	--------

--	--	--	--	--	--	--	--	--	--

UC8 Sensors	
Name	Colour
DL	Discharge Temp Red
SL	Suction Temp White
OC	Water Out Yellow
IC	Water In Blue
DEI	De-ice Temp Blue

REV	DESCRIPTION	ECN	DATE	APPROVED
A	Initial Release			

	©temperzone Ltd 2020	Drawn: Y.Z.	Date: 09/12/20	Title: MWS 1000L Piping Schematic	Drawing No: MWS 1000L	Rev: A
--	----------------------	-------------	----------------	-----------------------------------	-----------------------	--------