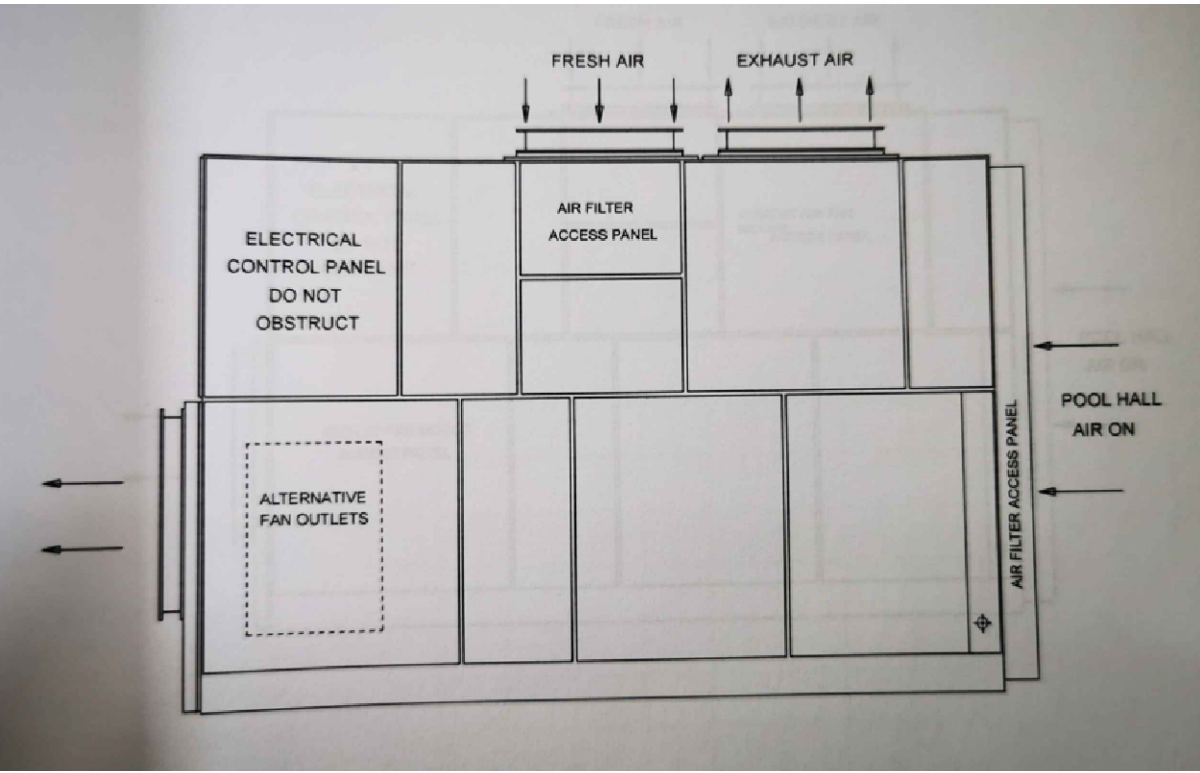
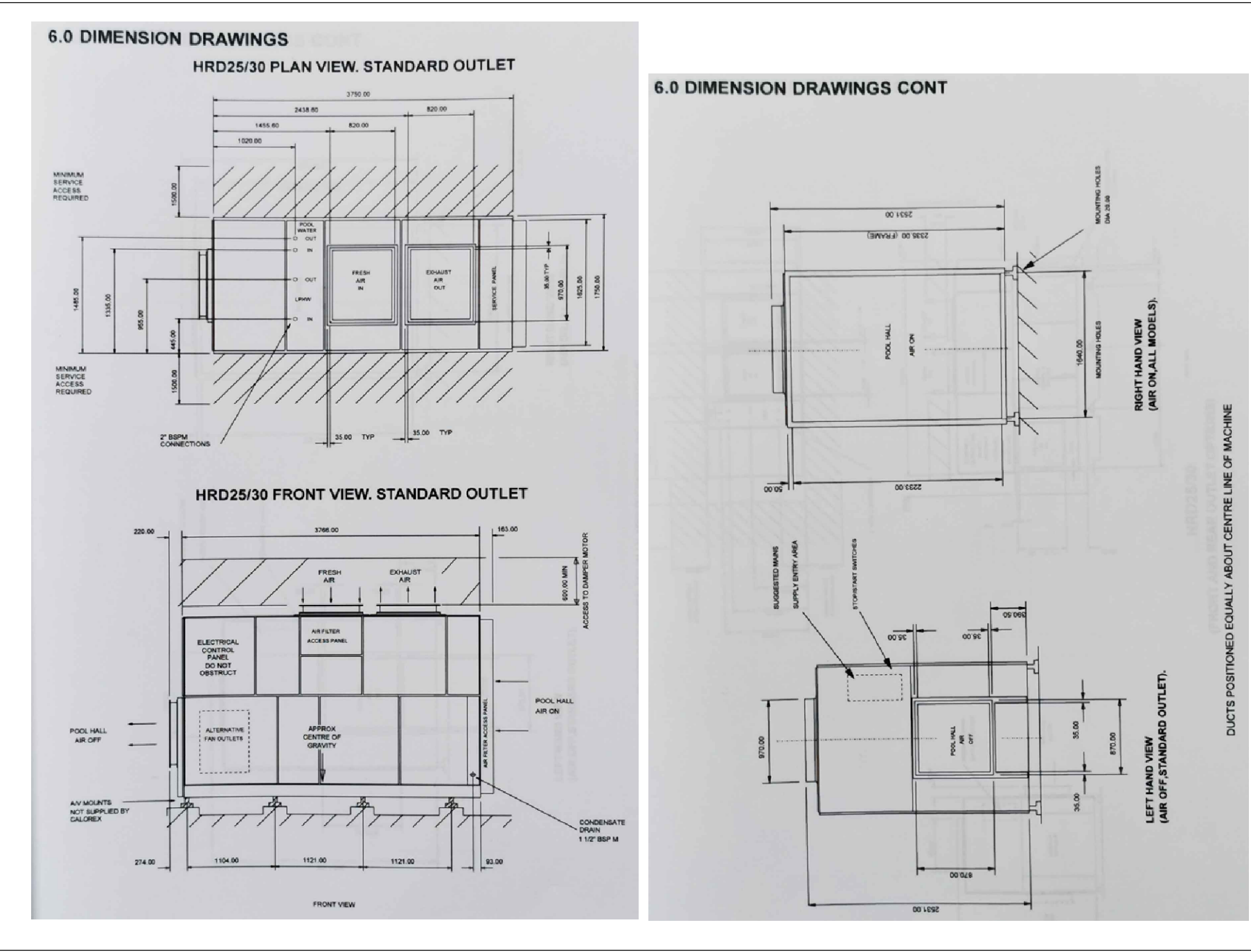
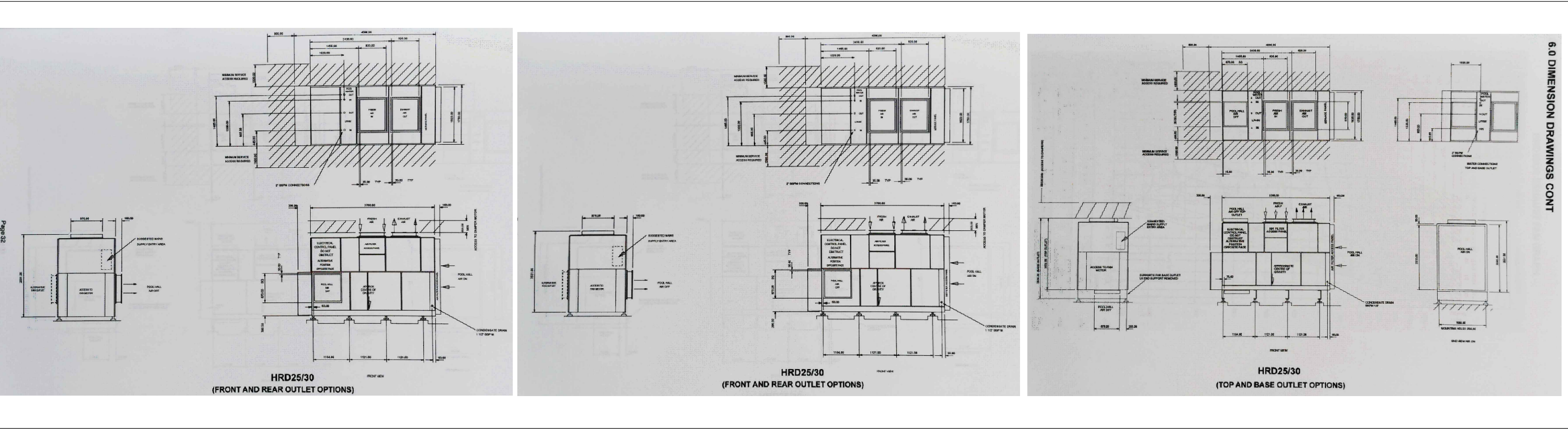




Configuration of the AHU - NTS



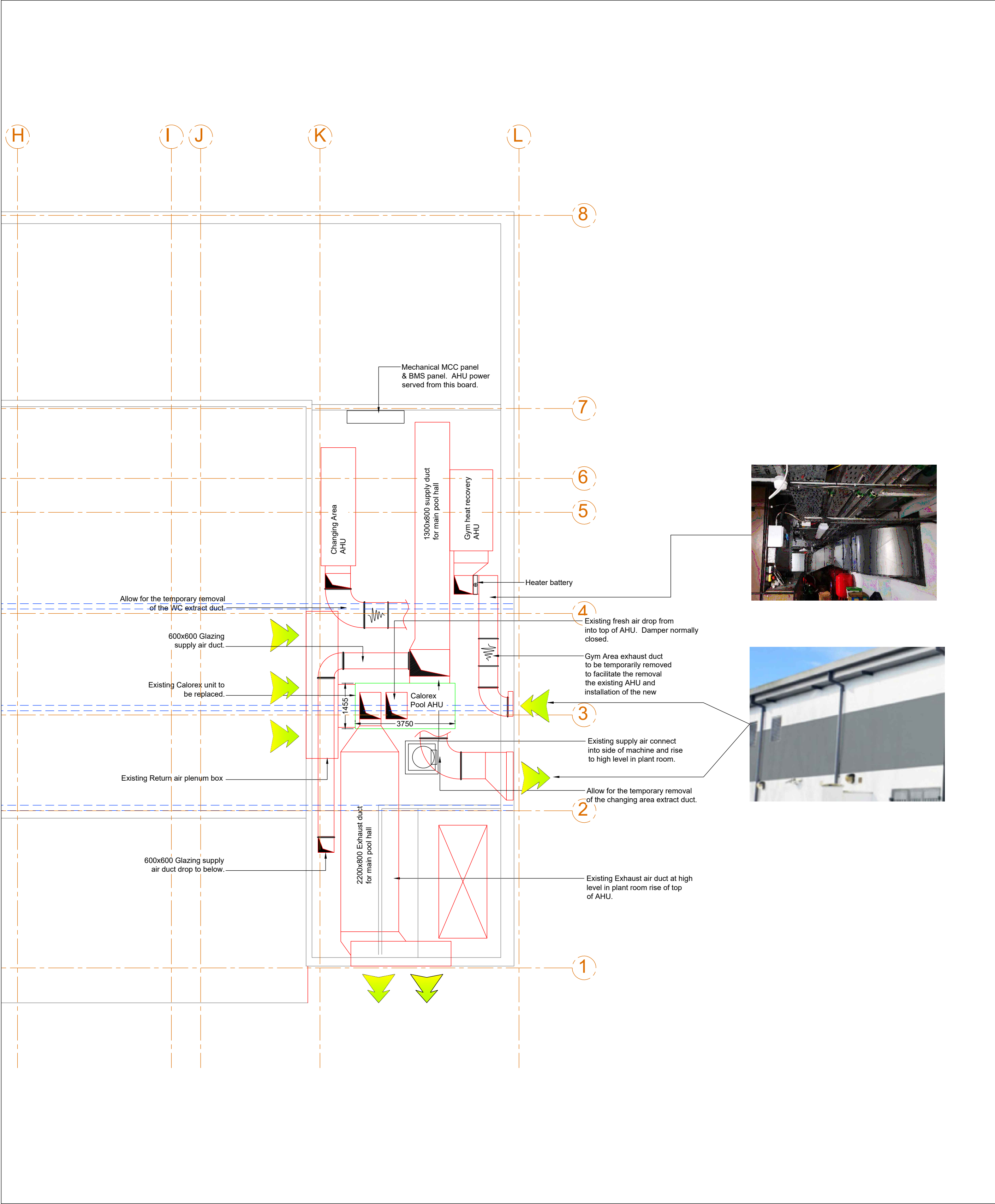
Dimensioned Drawings (NTS)



Dimensioned Drawings (NTS)

5.0 GENERAL DATA		Data			
calorex HRD		25		30	
MODEL:-	UNITS				
COMPRESSOR 1 (two speed)					
NOMINAL POWER CONSUMED (high speed) :-	kWh	14.2		20.3	
NOMINAL POWER CONSUMED (low speed) :-	kWh	7.1		9.8	
LRA (high/low speed), 3 ph N :-	AMPS	126/44		188/63	
RLA (high/low speed), 3 ph N :-	AMPS	24.6/14.0		35.2/19.6	
COMPRESSOR 2 (single speed)					
NOMINAL POWER CONSUMED :-	kWh	8.3		12.5	
LRA - 3 ph N :-	AMPS	77		126	
RLA - 3 ph N :-	AMPS	14.2		21.6	
MAIN FAN (single speed)					
AIR FLOW - (Plot, Dry Coils) :-	m ³ /HR	25000		35000	
MAX EXTERNAL TOTAL PRESSURE :-	mm w.g	30		30	
FLA - 3 ph N :-	AMPS	23		28.5	
EXHAUST FAN (two speed)					
AIR FLOW (summer) - (Plot, Dry Coils) :-	m ³ /HR	18000		23000	
AIR FLOW (winter) - (Plot, Dry Coils) :-	m ³ /HR	9000		11500	
AIR FLOW (unoccupied) - (Plot, Dry Coils) :-	m ³ /HR	1800		2300	
MAX EXTERNAL TOTAL PRESSURE :-	mm w.g	4		6	
FLA (high/low speed), 3 ph N :-	AMPS	12.4/5.6		21/8.6	
DEHUMIDIFICATION DUTY LITRES/HR					
VIA HEAT PUMP (24deg C dew point (summer Fresh Air) - 100% recirculation) :-	L/HR	68		88	
TOTAL @ 15deg C dew point (summer Fresh Air) :-	L/HR	129		183	
(Via Heat Pump) :-	L/HR	39		58	
TOTAL @ 6deg C dew point (winter Fresh Air) :-	L/HR	162		210	
(Via Heat Pump) :-	L/HR	53.8		73	
VD 2089 :-	L/HR	114		158	
(Via Heat Pump) :-	L/HR	39		58	
TOTAL DH+VD 2089 @ 12.5deg C dew point (summer) :-	L/HR	153		216	
HEAT TO AIR KW					
VIA HEAT PUMP (MODE "A") :-	mode A	mode B	mode A	mode B	
VIA HEAT PUMP (MODE "B") :-	mode A	mode B	mode A	mode B	90
VIA LPHW @ 80 deg C :-	mode A	mode B	mode A	mode B	
TOTAL :-	mode A	mode B	mode A	mode B	
Flow Rate LPHW +/- 10% :-	mode A	mode B	mode A	mode B	
LPHW Pressure drop @ Rated Flow :-	mode A	mode B	mode A	mode B	
LPHW Max working pressure :-	mode A	mode B	mode A	mode B	
BUILDING HEAT LOSS					
HEAT REQ. FOR FRESH AIR @ - 5 deg C :-	mode A	mode B	mode A	mode B	
HEAT RECOVERED FROM EXHAUST AIR (NET) :-	mode A	mode B	mode A	mode B	
AVAILABLE FOR FABRIC LOSSES @ - 5deg C Max :-	mode A	mode B	mode A	mode B	
AVAILABLE FOR FABRIC LOSSES @ - 5deg C Min :-	mode A	mode B	mode A	mode B	
HEAT TO POOL WATER KW					
VIA HEAT PUMP (MODE "A") Max :-	mode A	mode B	mode A	mode B	
VIA HEAT PUMP (MODE "B") Min :-	mode A	mode B	mode A	mode B	25
Flow Rate Pool water +/- 10% :-	mode A	mode B	mode A	mode B	
Pressure drop @ Rated Flow :-	mode A	mode B	mode A	mode B	
Max working pressure :-	mode A	mode B	mode A	mode B	
COOLING DUTY (Via Refrigeration) KW					
COOLING DUTY (sensible) :-	mode A	mode B	mode A	mode B	
COOLING DUTY (TOTAL) :-	mode A	mode B	mode A	mode B	
ELECTRICAL					
TOTAL POWER CONSUMED (nominal) :-	mode A	mode B	mode A	mode B	
MIN SUPPLY CAPACITY 3ph N :-	mode A	mode B	mode A	mode B	
MAX SUPPLY FUSE 3ph N :-	mode A	mode B	mode A	mode B	
MAX RECOMMENDED POOL SIZE M² :-					
HOTEL / CLUB USE (medium duty) :-	mode A	mode B	mode A	mode B	
MUNICIPAL USE (heavy duty) :-	mode A	mode B	mode A	mode B	
GAS CHARGE					
Hermetic System	mode A	mode B	mode A	mode B	
Gas Charge R407c Comp 1 Dehum	mode A	mode B	mode A	mode B	
Gas Charge R407c Comp 2 Heat Recovery	mode A	mode B	mode A	mode B	
WEIGHT APPROX. :-	mode A	mode B	mode A	mode B	
NOTE					
MODE A* = RECOVERED HEAT BASED TO POOL WATER (POOL WATER TEMPERATURE NOT SATISFIED)					
MODE B* = RECOVERED HEAT BASED TO POOL HALL AIR (POOL WATER TEMPERATURE SATISFIED)					
For Accurate application sizing Consult CALOREX Heat Pumps Ltd.					
R407c Global warming potential (GWP) 1700					
Page 29					

Specification of the existing machine



No.	Date	Initial	Revision Details
TME Services			
Project: New AHU installation for Claremorris Swimming Pool, Co. Mayo.			
Title: Layout of Existing Ventilation First Floor Plant Area			
Architect:			
Client: Mayo County Council			
Scale: 1:100 @ A1	Date: August 2025	Drg. no.: 254062-57-01	