

Legend:

Ducting

- Uninsulated supply air ducting
- Externally insulated supply air ducting
- Internally insulated supply air ducting
- Cladded supply air ducting
- Uninsulated return air ducting
- Externally insulated return air ducting
- Internally insulated return air ducting
- Cladded return air ducting
- Uninsulated fresh air ducting
- Externally insulated fresh air ducting
- Internally insulated fresh air ducting
- Cladded fresh air ducting
- Uninsulated extract air ducting
- Uninsulated black steel ducting
- Cladded black steel ducting
- Round ducting
- Spiral round ducting
- Uninsulated stainless steel ducting

Accessories

- Rectangular sound attenuator
- Round sound attenuator
- Round pod type sound attenuator
- Filter
- Balancing damper
- Opposed blade damper
- Motorized opposed blade damper
- Non return damper
- Cross talk sound attenuator
- Curtain type fusible link fire/smoke damper
- Blade type fusible link fire/smoke damper
- Blade type motorised fire/smoke damper
- Duct heater
- Venturi discharge with wire mesh screen
- Square cowl with wire mesh screen
- Round cowl with wire mesh screen
- Flexible connection

Terminals

- Rectangular diffuser (1 way blow)
- Rectangular diffuser (2 way blow)
- Rectangular diffuser (3 way blow)
- Rectangular diffuser (Plate)
- Rectangular diffuser (swirl)
- Rectangular diffuser (with plenum and spigot)
- Round diffuser (Plate)
- Round diffuser (Swirl)
- Variable twist diffuser
- Supply air grille
- Return air grille
- Fresh air grille
- Extract air grill
- Linear diffuser
- Disc valve
- Jet nozzle
- Transfer air grille
- Wall mounted return air grille
- Supply air grille
- Extract weather louvre
- Supply weather louvre
- Door grille
- Door undercut by 25mm

Fans

- Axial flow fan
- In line duct fan
- Tube fan
- Tube fan
- Ceiling mounted fan
- Window fan
- Wall fan
- Propeller fan
- Ceiling sweep fan

Plumbing

- Drain point by plumber
- Drain Stack
- Trap
- Full bore drain point
- Water Make-up point
- Condensate drain piping to slope to drain point

HVAC Electrical

- 3 phase Isolator
- Single phase Isolator
- Variable Speed Drive (VSD)
- Motor Control Centre (MCC)
- Ø50mm outlet box with Ø20mm conduit and draw wire mounted at 1750 APFL for room sensor (C)

Piping

- Chilled water supply piping
- Chilled water return piping
- Condenser water supply piping
- Condenser water return piping
- Hot water supply piping
- Hot water return piping
- Drain piping
- Make-up water piping
- Flexible connection
- Refrigerant piping
- Chilled water tap-off point c/w ball valve and flexible hose and extra tap-off with plug
- Flexible coupling
- Blank end flange on chilled water supply piping

Sensors & Gauges

- Temperature sensor (plan)
- Temperature sensor (front view)
- Temperature sensor (side view)
- Thermometer (horizontal)
- Thermometer (vertical)
- Pressure gauge (front view)
- Pressure gauge (side view)
- Automatic air vent (side view)
- Automatic air vent (plan view)

Valves

- Butterfly valve (plan)
- Butterfly valve (section)
- Gate valve (plan)
- Gate valve (section)
- Globe valve (plan)
- Globe valve (section)
- Angle valve (plan)
- Angle valve (section)
- Non return valve
- Pressure reducing valve (plan)
- Pressure reducing valve (section)
- Balancing valve (plan)
- Balancing valve (section)
- Ball valve (plan)
- Ball valve (section)
- Two way valve (plan)
- Two way valve (section)
- Three way valve (plan)
- Three way valve (section)
- Strainer (plan)
- Strainer (section)

Units

- Ceiling mounted chilled water fan coil unit
- Midwall split type a/c unit
- Under ceiling split type a/c unit
- Cassette split type a/c unit
- Console unit
- Condensing unit
- Upblow chilled water fan coil unit
- Close control unit

Abbreviations

- Filter bank. Refer to schedule below for details
- Fans. Refer to schedule below for details
- Sound attenuator. Refer to schedule below for details
- Fire damper. Refer to schedule below for details
- Dampers. Refer to schedule below for details
- Constant air volume terminal. Refer to schedule for details
- Variable air volume terminal. Refer to schedule for details
- Weather louvre
- Duct stop end
- Wire mesh screen
- Flat on top
- Flat on bottom
- Full bore drain outlet
- Drain point
- Chilled water supply
- Chilled water return
- Condenser water supply
- Condenser water return
- Valved tap-off for future connection
- Blade damper
- Motor control centre
- Primary chilled water pump
- Secondary chilled water pump
- Primary condenser water pump
- Secondary condenser water pump
- Split unit indoor
- Split unit outdoor
- Console Unit

Sound Attenuators					
REF	Type	Nominal Size WxHxL / Dia x L	Air Volume l/s	Pressure Drop (Pa)	Quantity
SA01	POD	Ø 160 X 600	50l/s	5	2

Terminals						
REF	Type	Size LxW	AirVolume Max (l/s)	Duct Static Pressure Pa	Connection Size	Quantity
EG01	EGG CRATE	400x400	50	15	Ø200	1
SG01	SA GRILLE	400x400	50	15	Ø200	1
NOTES: 1) To be fitted with Balancing Damper 2) Grille to be hinged for replacement of filter media						

Fans							
REF	Type	Preliminary Size Selected mm x mm/ Ø	Air Volume l/s	Pressure Pressure Total (Pa)	Power Supply (V/ph/Hz)	Power Absorbed (kW)	Variable Speed
FT01	IN LINE	Ø160	50l/s	300	230/1/50	0.077	NO
WF01	WINDOW FAN	Ø150	30l/s	50	230/1/50	0.025	NO

Split Unit Schedule							
Code	Type	Air Volume l/s	Capacity Heating (kW) Cooling (kW) Reverse Cycle	Power Supply (V/ph/Hz)	Power Absorbed (kW)	Quantity	Notes
SUI-01	Midwall	340	4.6	230/1/50	2.3	1	1
SUO-01							
NOTES: 1) Unit capacities rated for standard ISO Conditions							

ISSUED FOR INFORMATION

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D.O.	REV	DATE	** REVISION **	REV	BY	CHKD	BY	ALUTH	BY
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DESIGN	APPROVED	03.02.2017	DTC	-		-			
KKS	APP	-	-						
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SCALE		1:100							
MEDUPI POWER STATION WEIGH BRIDGE CONTROL BUILDING GROUND FLOOR HVAC SCHEDULE INFORMATION AND LEGEND									
08073 - AE - 800									
0.84/50890									
Eskom Enterprises									
SHEET									REV
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