

TENANCY COOLING SCHEDULE									
TENANCY	TITLE	COOLING TYPE	SUPPLY AIR I/s TOTAL	OUTSIDE AIR I/s TOTAL	COOLING kW	SENSIBLE kW	CHW L/S	EST. STATIC	AIR ON DB/ABR AIR OFF DB CHW ENY/LV
00MEN018	ALICE & GEORGE	CHILLED WATER	1000	-	12.2	11.9	0.35	200 Pa	24°C/17.2°C 14.2°C 7/15.5°C
00MEN019	BOOST JUICE	CHILLED WATER	1000	-	12.2	11.9	0.35	200 Pa	24°C/17.2°C 14.2°C 7/15.5°C
00MEN020	SUSHI SUSHI	CHILLED WATER	1000	-	12.2	11.9	0.35	200 Pa	24°C/17.2°C 14.2°C 7/15.5°C
00MEN021	THE KITCHEN	CHILLED WATER	1000	-	12.2	11.9	0.35	200 Pa	24°C/17.2°C 14.2°C 7/15.5°C
00MEN023	THE KITCHEN	CHILLED WATER	1000	-	12.2	11.9	0.35	200 Pa	24°C/17.2°C 14.2°C 7/15.5°C
-	MERLO	COMMON AHU	-	-	-	-	-	-	-
00MEN033	CBDO	COMMON AHU	-	-	-	-	-	-	-
00SAR089	HUB CAFE	N/A	-	-	-	-	-	-	-
01MEN016	AGENCY	COMMON AHU	-	-	-	-	-	-	-
033TA003	FOOD LAB	COMMON AHU	-	-	-	-	-	-	-

AIR CONDITIONING SHEDULE

MECHANICAL SERVICES SPECIFICATION

SCOPE OF WORK:

THE GENERAL SCOPE OF WORK SHALL INCLUDE THE FOLLOWING AND ALL THOSE SPECIFIED ON THE DRAWINGS WITH ANY OTHER ANULLARY WORK THAT MAY BE REQUIRED TO PROVIDE A COMPLETE AND OPERATIONAL INSTALLATION.

- INSTALL 5 OFF NEW CHILLED WATER FAN COIL UNITS
- ALL VALVES, TAKE OFFS AND CONTROLS
- PROVIDE AND INSTALL NEW DUCTWORK AS SHOWN, ALLOW ALL COSTS.
- SUPPLY AND INSTALL KITCHEN EXHAUST HOODS, DUCTING AND CONTROLS AS SHOWN
- ALL ELECTRICAL CONNECTIONS AND CONTROLS.
- COMMISSION ALL MECHANICAL SERVICES AND INTERFACES WITH OTHER SERVICES.
- PROVIDE CONSTRUCTION DRAWINGS FOR APPROVAL BEFORE PROCEEDING WITH THE MANUFACTURE OR INSTALLATION OF EQUIPMENT.
- PROVIDE AIR AND WATER BALANCING COMMISSIONING FIGURES

PLANT AND EQUIPMENT:

GENERAL:

SUPPLY AND INSTALL PLANT AND EQUIPMENT IN ACCORDANCE WITH MCC VOLUME 1 BCA – SECTION 1.

INCLUDE ALL INCIDENTAL AND AND ANULLARY EQUIPMENT NECESSARY FOR THE COMPLETION OF THE INSTALLATION, THE SAFE AND EFFICIENT OPERATION OF THE PLANT, AND THE MAINTENANCE OF THE PLANT.

OBTAIN APPROVAL FOR THE MANUFACTURE OF ALL PLANT AND EQUIPMENT PRIOR TO ORDERING.

GUARANTEE THE PLANT TO PROVIDE THE SPECIFIED CAPACITIES AND PERFORMANCE IN THE INSTALLED ENVIRONMENT WITHOUT OBJECTIONABLE NOISE AND VIBRATION.

ACCEPT RESPONSIBILITY FOR THE ASSESSMENT OF ACTUAL SYSTEM RESISTANCE AND PRESSURES AND ORDER EQUIPMENT TO SUIT THE SAME.

FAN COIL UNITS

SELECT FAN COIL UNITS TO COMPLY WITH SECTION J REQUIREMENTS

- FANS:
 - CENTRIFUGAL LOW LINE
 - FAN MOTOR TO BE EC DIRECT DRIVE TYPE AND "MEPS" COMPLIANT
 - VARIABLE SPEED WITH 0-10V DC SUPPLY SIGNAL
- FAN COIL UNIT
 - DRAIN TRAY
 - GALVANISED STEEL CASING, INTERNALLY INSULATED
 - FILTER BOX WITH 50mm V-FORM FILTER AND ACCESS HATCH
- APPROVED MAKES:
 - TEMPERZONE, AIR-DESIGN OR EQUIVALENT

CONTROLS:

GENERAL:

PROVIDE CONTROLS AND MONITORING SYSTEMS AS NECESSARY FOR SAFE, CORRECT AND EFFICIENT OPERATION OF THE PLANT, INCLUDING ALL NECESSARY EQUIPMENT SUCH AS VALVES, RELAYS, TEMPERATURE SENSORS AND INTERLOCKS TO PROVIDE THE COMPLETE OPERATING SYSTEM.

METERING:

ENSURE ALL TENANCES HAVE INDIVIDUAL CHILLED WATER FLOW METERS TO BE CONNECTED TO THE BMS.

A/C:

- PROVIDE WALL MOUNTED CONTROL FOR EACH TENANCY WITH ON / OFF AND SET POINT ADJUSTMENT.
- PROVIDE FCU STATUS SIGNAL TO THE BMS
- PROVIDE DAMPER CONTROLS FOR KITCHEN MAKE UP AIR AND OUTSIDE AIR FOR TENANCY KITCHEN EXHAUST SYSTEMS
- PROVIDE WALL MOUNTED CONTROL FOR EACH EXHAUST SYSTEM
- PROVIDE CONTROLS FOR EXISTING MAKE UP AIR DAMPERS AND EXHAUST FANS

EXHAUST HOOD SCHEDULE

ITEM	SIZE (EXTERNAL)	EXHAUST AIR	SUPPLY AIR	FILTERS	CONNECTION	HOOD TYPE	COOKING PROCESS	INSIDE LENGTH	INSIDE WIDTH	INSIDE PERIMETER	LIGHTING	HEIGHT ABOVE COOKING SURFACE	MIN FILTER HEIGHT ABOVE COOKING SURFACE
H-01	2910x900	2050 L/S	1640 L/S	-	-	CORNER MOUNTED TYPE 4		2810	850	4500	TBC	1200	-
H-02	4970x1270	2760 L/S	2210 L/S	-	-	CORNER MOUNTED TYPE 4		4870	980	6140	TBC	1200	
H-03	1400x1100	300 L/S	240 L/S	-	-	NON GREASE DISHWASHING		1300	1050	-	-	-	
H-04	1400x1100	300 L/S	240 L/S	-	-	NON GREASE DISHWASHING		1300	1050	-	-	-	
H-05	3350x1350	2070 L/S	-	-	-	CORNER MOUNTED TYPE 4		3300	1300	4600	TBC	1200	

KITCHEN EXHAUST SYSTEMS

- LIGHTING AND WIRING WITHIN EXHAUST HOODS TO A SURFACE MOUNTED JUNCTION BOX TO BE SUPPLIED BY HOOD MANUFACTURER
- INSTALL ACCESS PANELS IN EXHAUST DUCT EVERY 3M OR AT CHANGE OF DIRECTION.
- BUILDER TO INSTALL ACCESS PANELS IN KITCHEN CEILING AS REQUIRED.
- HOOD TO BE MANUFACTURED FROM 304 GRADE 1.2mm THICK STAINLESS STEEL (POLISHED).
- EXHAUST DUCTWORK TO BE GALVANISED STEEL TO AUSTRALIAN STANDARDS
- HOOD AND DUCTWORK DIMENSIONS ARE TO BE CHECKED FOR SITE SUITABILITY BEFORE MANUFACTURE TO ENSURE NO CLASHES.
- MINIMUM RELIEF AIR TO BE 80% OF EXHAUST.
- DUCT SEAMS AND FLANGES MUST BE OF A NEAT SOLDER SMOOTH FINISH.
- ILLUMINATED CONTROL PANEL TO BE LOCATED ADJACENT TO HOOD IN A CLEARLY VISIBLE LOCATION. THE SWITCH IS NOT TO BE LOCATED UNDER THE LINE OF THE HOOD.
- PROVIDE CLEAN OUT ACCESS PANELS AT 3M SPACING ON THE SIDE OF DUCTWORK AND AT CHANGE OF DIRECTION IN DUCTWORK.
- HOODS AND DUCTS TO COMPLY WITH AS1668.2 AND LOCAL AUTHORITY REGULATIONS.
- CONFIRM COOKING EQUIPMENT DIMENSIONS PRIOR TO CONSTRUCTION TO ENSURE CORRECT OVERHANGS CAN BE ACHIEVED.

DISTECH CONTROLS™

Project Name: 7343, Southern Cross University Hospital
 Controller Name: FCU, Chilled water with OA Damper
 Model Number: 1E3-310

Point Index	Point Name	Delivery Method	Description	Point Type				Signal	Part Number	Detail	Rev	Comments
				A1	gr	AO	DO					
310	State Temp		Room Exhausted Temp Damper	x				100 Type II	POTE-STRICKON	1E3-7030 1PM		
311	SA Temp		Room Exhausted Temp Damper	x				Optical	555-33105	1E3-7030 1PM		
312	SA Temp		Room Exhausted Temp Damper	x				Optical	555-33105	1E3-7030 1PM		
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