

## TECHNICAL SPECIFICATIONS OF EXISTING

### AIR HANDLING UNIT

[Normal Temperature]		
AHU 4-2A & 2B		
	Specification	Offered
Manufacturer	-	-
Country of Manufacture	-	YORK
Model No.	-	MALAYSIA
Overall Dimension (L x W x H (mm))	-	YSM 70*80
Operating Weight (Kg)	-	3194 x 2794 x 2552
Type (Hori / Vert / Draw / Blow thru. )	-	1976
Area Serving	3rd sty Hot Kitchen / Production Blk	
Variable Speed Drive (Yes/No)	Yes	Yes
Total Supply Air Volume (CMH)	40000	40000
Fresh Air Volume (CMH)	40000	40000
Coil side data		
Total Heat (KW)	362.00	714.47
Total Sensible Heat (KW)	219.00	300.28
<b>Air Side Data:</b>		
Max. Coil Free Velocity (m/s)	-	2.02
Coil Pressure Drop (mm wg)	-	14.99
External Static Pressure (mm wg)	75.00	80.00
Total Static Pressure (Pa/mm wg)	-	1004 / 102.42
Air -On Coil	DB (°C)	33.00
Temperature	WB (°C)	27.00
Air -Off Coil	DB (°C)	10.60
Temperature	WB (°C)	10.60
<b>Water Side Data:</b>		
Chilled Water Temperature (°C)	6.70	6.70
Chilled Water Flow (L/S)	24.40	24.40
Cooling Coil Face (M2)	-	8/12
Cooling Coil Rows / FPI	-	12.70
Cooling Coil Tube Diameter (mm)	-	3.81
Cooling Coil Press. Drop (m WG)	-	1050
Fan Speed (Rpm)	1500	13.60
Fan KW Rating	-	FIXED DRIVE
Type of Fan Drive	-	BROOK
Make of Motor	-	CAGE ROTOR
Type of Motor	-	F
Insulation Class of Motor	-	TEFV IP55
Type of Enclosure & IP No.	-	18.5
KW of Motor	-	34
F.L. Current	-	89
Sound Power LWA	db(A)	96
Sound Power	63 Hz	90
Level LW (db)	125 Hz	87
Per Octave	250 Hz	86
Band	500 Hz	83
	1000 Hz	79
	2000 Hz	74
	4000 Hz	66
	8000 Hz	-

[Normal Temperature]		
AHU 4-3A & 3B		
	Specification	Offered
Manufacturer	-	-
Country of Manufacture	-	YORK
Model No.	-	MALAYSIA
Overall Dimension (L x W x H (mm))	-	YSM 50*60
Operating Weight (Kg)	-	2794 x 2110 x 1868
Type (Hori / Vert / Draw / Blow thru. )	-	1056
Area Serving	3rd sty Hot Kitchen / Production Blk	
Variable Speed Drive (Yes/No)	Yes	Yes
Total Supply Air Volume (CMH)	28000	28000
Fresh Air Volume (CMH)	28000	28000
Coil side data		
Total Heat (KW)	190.00	420.26
Total Sensible Heat (KW)	120.00	177.28
<b>Air Side Data:</b>		
Max. Coil Free Velocity (m/s)	-	2.74
Coil Pressure Drop (mm wg)	-	16.76
External Static Pressure (mm wg)	75.00	75.00
Total Static Pressure (Pa/mm wg)	-	985 / 100.41
Air -On Coil	DB (°C)	33.00
Temperature	WB (°C)	27.00
Air -Off Coil	DB (°C)	13.40
Temperature	WB (°C)	13.40
<b>Water Side Data:</b>		
Chilled Water Temperature (°C)	6.70	6.70
Chilled Water Flow (L/S)	16.70	16.70
Cooling Coil Face (M2)	-	2.84
Cooling Coil Rows / FPI	-	8/8
Cooling Coil Tube Diameter (mm)	-	12.70
Cooling Coil Press. Drop (m WG)	-	2.90
Fan Speed (Rpm)	1500	1377
Fan KW Rating	-	9.75
Type of Fan Drive	-	FIXED DRIVE
Make of Motor	-	BROOK
Type of Motor	-	CAGE ROTOR
Insulation Class of Motor	-	F
Type of Enclosure & IP No.	-	TEFV IP55
KW of Motor	-	11
F.L. Current	-	21
Sound Power LWA	db(A)	89
Sound Power	63 Hz	92.00
Level LW (db)	125 Hz	87.00
Per Octave	250 Hz	85.00
Band	500 Hz	86.00
	1000 Hz	84.00
	2000 Hz	80.00
	4000 Hz	75.00
	8000 Hz	66.00

[Low Temperature]		
AHU 4-6A & 6B		
	Specification	Offered
Manufacturer	-	YORK
Country of Manufacture	-	MALAYSIA
Model No.	-	CSD 666
Overall Dimension (L x W x H (mm))	-	3600 x 3050 x 2650
Operating Weight (Kg)	-	3460
Type (Hori / Vert / Draw / Blow thru. )	-	HORIZONTAL DRAW THRU
Area Serving	Tray Setting / Production Block	
Variable Speed Drive (Yes/No)	Yes	Yes
Total Supply Air Volume (CMH)	58000	58000
Fresh Air Volume (CMH)	11000	11000
Total Heat (KW)	238.00	321.13
Total Sensible Heat (KW)	162.00	175.56
<b>Air Side Data:</b>		
Max. Coil Free Velocity (m/s)	-	2.63
Coil Pressure Drop (mm wg)	-	11.18
External Static Pressure (mm wg)	75.00	95.00
Total Static Pressure (Pa/mm wg)	-	1102 / 112.41
Air-On Coil	20.40	20.40
Temperature	17.30	17.30
Air-Off Coil	12.00	11.48
Temperature	11.80	11.18
<b>Water Side Data:</b>		
Chilled Water Temperature (°C)	4.00	4.00
Chilled Water Flow (L/S)	11.40	11.40
Cooling Coil Face (mm2)	-	6.23
Cooling Coil Rows / FPI	-	4/12
Cooling Coil Tube Diameter (mm)	-	12.70
Cooling Coil Press. Drop (m WG)	-	3.44
Fan Speed (Rpm)	1500	860
Fan KW Rating	-	21.30
Type of Fan Drive	-	FIXED DRIVE
Make of Motor	-	BROOK
Type of Motor	-	CAGE ROTOR
Insulation Class of Motor	-	F
Type of Enclosure & IP No.	-	TEFV IP55
KW of Motor	-	30
F.L. Current	-	55
Sound Power LWA	db(A)	90
Sound Power	63 Hz	97.00
Level LW (db)	125 Hz	91.00
Per Octave	250 Hz	88.00
Band	500 Hz	87.00
	1000 Hz	84.00
	2000 Hz	80.00
	4000 Hz	75.00
	8000 Hz	67.00

[Low Temperature]		
AHU 4-7A & 7B		
	Specification	Offered
Manufacturer	-	YORK
Country of Manufacture	-	MALAYSIA
Model No.	-	YSM 70*80
Overall Dimension (L x W x H (mm))	-	3536 x 2794 x 2552
Operating Weight (Kg)	-	1876
Type (Hori / Vert / Draw / Blow thru. )	-	HORIZONTAL DRAW THRU
Area Serving	Dishing / Production Block	
Variable Speed Drive (Yes/No)	Yes	Yes
Total Supply Air Volume (CMH)	49000	49000
Fresh Air Volume (CMH)	10000	10000
Total Heat (KW)	210.00	268.28
Total Sensible Heat (KW)	131.00	140.06
<b>Air Side Data:</b>		
Max. Coil Free Velocity (m/s)	-	2.48
Coil Pressure Drop (mm wg)	-	9.91
External Static Pressure (mm wg)	75.00	75.00
Total Static Pressure (Pa/mm wg)	-	901 / 91.91
Air-On Coil	21.10	21.10
Temperature	18.20	18.22
Air-Off Coil	13.30	12.68
Temperature	13.10	12.41
<b>Water Side Data:</b>		
Chilled Water Temperature (°C)	4.00	4.00
Chilled Water Flow (L/S)	9.1(10% more)	10.00
Cooling Coil Face (mm2)	-	5.49
Cooling Coil Rows / FPI	-	4/12
Cooling Coil Tube Diameter (mm)	-	12.70
Cooling Coil Press. Drop (m WG)	-	0.46
Fan Speed (Rpm)	1500	897
Fan KW Rating	-	15.10
Type of Fan Drive	-	FIXED DRIVE
Make of Motor	-	BROOK
Type of Motor	-	CAGE ROTOR
Insulation Class of Motor	-	F
Type of Enclosure & IP No.	-	TEFV IP55
KW of Motor	-	18.5
F.L. Current	-	34
Sound Power LWA	db(A)	89
Sound Power	63 Hz	96.00
Level LW (db)	125 Hz	90.00
Per Octave	250 Hz	87.00
Band	500 Hz	86.00
	1000 Hz	83.00
	2000 Hz	79.00
	4000 Hz	74.00
	8000 Hz	66.00

		[Low Temperature]	
		AHU 4-8A & 8B	
Manufacturer		Specification	Offered
Country of Manufacture		-	YORK
Model No.		-	MALAYSIA
Overall Dimension (L x W x H (mm))		-	YSM 70*80
Operating Weight (Kg)		-	3536 x 2794 x 2552
Type (Hori / Vert / Draw / Blow thru. )		-	1996
Area Serving		-	HORIZONTAL DRAW THRU
Variable Speed Drive (Yes/No)		Dishing / Prodction Block	
Total Supply Air Volume (CMH)		Yes	Yes
Fresh Air Volume (CMH)		54000	54000
Total Heat (KW)		10800	10800
Total Sensible Heat (KW)		187.00	337.26
Air Side Data:		147.00	205.44
Max. Coil Free Velocity (m/s)		-	-
Coil Pressure Drop (mm wg)		-	2.73
External Static Pressure (mm wg)		-	17.27
Total Static Pressure (Pa/mm wg)		75.00	85.00
Air -On Coil		-	1134 / 115.68
Temperature		21.40	21.40
Air -Off Coil		17.10	17.11
Temperature		10.50	10.19
Temperature		10.20	10.03
<b>Water Side Data:</b>			
Chilled Water Temperature (°C)		4.00	4.00
Chilled Water Flow (L/S)		9.00	11.00
Cooling Coil Face (mm2)		-	5.49
Cooling Coil Rows / FPI		-	6/12
Cooling Coil Tube Diameter (mm)		-	12.70
Cooling Coil Press. Drop (m WG)		-	1.58
Fan Speed (Rpm)		1500	992
Fan KW Rating		-	20.30
Type of Fan Drive		-	FIXED DRIVE
Make of Motor		-	BROOK
Type of Motor		-	CAGE ROTOR
Insulation Class of Motor		-	F
Type of Enclosure & IP No.		-	TEFV IP55
KW of Motor		-	30
F.L. Current		-	55
Sound Power LWA db(A)		-	91
Sound Power		-	87.00
Level LW (db)		63 Hz	83.00
Per Octave		125 Hz	83.00
Band		250 Hz	88.00
		500 Hz	85.00
		1000 Hz	81.00
		2000 Hz	76.00
		4000 Hz	68.00
		8000 Hz	-

		AHU S4-4 (Double Coil AHU)	
		Specification	Offered
Manufacturer		-	YORK
Country of Manufacture		-	MALAYSIA
Model No.		-	YDM 50*70
Overall Dimension (L x W x H (mm))		-	3978 x 2502 x 1918
Operating Weight (Kg)		-	1438
Type (Hori / Vert / Draw / Blow thru. )		-	HORIZONTAL DRAW THRU
Area Serving		4 th Sty Test / Training Kitchen / Support Blk	
Variable Speed Drive (Yes/No)		Yes	Yes
Total Supply Air Volume (CMH)		31000*	31000*
Fresh Air Volume (CMH)		31000*	31000*
Total Heat (KW)		-	31000*
Total Sensible Heat (KW)		566.00	COIL 1
Air Side Data:		232.00	COIL 2
Max. Coil Free Velocity (m/s)		-	249.60 +326.2 =575.8
Coil Pressure Drop (mm wg)		-	109.50 +132.9 =242.8
External Static Pressure (mm wg)		-	2.57
Total Static Pressure (Pa/mm wg)		70.00	2.57
Air -On Coil		-	5.61
Temperature		33.00	21.80
Air -Off Coil		27.00	70.00
Temperature		12.50	969 / 98.8
Temperature		12.40	33.00
Temperature		-	22.60
Temperature		-	27.00
Temperature		-	21.00
Temperature		-	9.90
Temperature		-	9.90
<b>Water Side Data:</b>			
Chilled Water Temperature (°C)		6.70	6.70
Chilled Water Flow (L/S)		8.00	10.72
Cooling Coil Face (M2)		-	3.35
Cooling Coil Rows / FPI		-	3R / 8 fpi
Cooling Coil Tube Diameter (mm)		-	10R / 10 fpi
Cooling Coil Press. Drop (m WG)		-	12.70
Fan Speed (Rpm)		1500	1.40
Fan KW Rating		-	4.34
Type of Fan Drive		-	1163
Make of Motor		-	10.30
Type of Motor		-	FIXED DRIVE
Insulation Class of Motor		-	BROOK
Type of Enclosure & IP No.		-	CAGE ROTOR
KW of Motor		-	F
F.L. Current		-	TEFV IP55
Sound Power LWA db(A)		-	15
Sound Power		-	29.5
Level LW (db)		63 Hz	88
Per Octave		125 Hz	95
Band		250 Hz	89
		500 Hz	86
		1000 Hz	85
		2000 Hz	82
		4000 Hz	78
		8000 Hz	73
		-	65

		[Normal Temperature]			
		AHU S2-1		AHU S2-2	
		Specification	Offered	Specification	Offered
Manufacturer		-	YORK	-	YORK
Country of Manufacture		-	MALAYSIA	-	MALAYSIA
Model No.		-	YSM 40*80	-	YSM 50*70
Dimension (L x W x H (mm))		-	2852 x 2794 x 1526	-	3194 x 2452 x 1868
Weight (Kg)		-	1010	-	1382
Flow / Vert / Draw / Blow thru. )		-	HORIZONTAL DRAW THRU	-	HORIZONTAL DRAW THRU
Supplying		2nd sty Purchasing Office / Service Bldg		2nd sty Canteen / Service Bldg	
Variable Speed Drive (Yes/No)		Yes	Yes	Yes	Yes
Supply Air Volume (CMH)		27000	27000	32000	32000
Return Air Volume (CMH)		5400	5400	6400	6400
Rated Heat (KW)		140.00	164.20	326.00	360.04
Available Heat (KW)		66.00	86.88	161.00	170.04
Coil Data:					
Coil Free Velocity (m/s)		-	2.44	-	2.65
Pressure Drop (mm wg)		-	8.13	-	16.51
Static Pressure (mm wg)		75.00	79.00	75.00	77.00
Static Pressure (Pa/mm wg)		-	936 / 95.48	-	990/100.99
Coil Temperature	DB (°C)	26.20	26.20	28.50	28.50
	WB (°C)	21.70	21.72	23.40	23.39
Coil Temperature	DB (°C)	17.10	16.72	13.70	12.85
	WB (°C)	16.70	16.10	13.40	12.73
Coil Data:					
Water Temperature (°C)		6.70	6.70	6.70	6.70
Water Flow (L/S)		6.10	6.10	14.10	14.10
Coil Face (mm2)		-	3.07	-	3.36
Coil Rows / FPI		-	4 / 10	-	6/12
Coil Tube Diameter (mm)		-	12.70	-	12.70
Coil Press. Drop (m WG)		-	0.52	-	3.93
Speed (Rpm)		1500	1336	1500	1184
Rating		-	8.91	-	10.90
Fan Drive		-	FIXED DRIVE	-	FIXED DRIVE
Motor		-	BROOK	-	BROOK
Motor		-	CAGE ROTOR	-	CAGE ROTOR
Class of Motor		-	F	-	F
Enclosure & IP No.		-	TEFV IP55	-	TEFV IP 55
Motor		-	11	-	15
Motor		-	21A	-	28A
Motor		-	89	-	89
Motor		-	92	-	96
Motor		-	87	-	90
Motor		-	85	-	87
Motor		-	86	-	86
Motor		-	84	-	83
Motor		-	80	-	79
Motor		-	75	-	74
Motor		-	66	-	68