

Williams
Professional Refrigeration

Counter Series

Williams present a series of ergonomic counter type refrigerators, built to maximise storage space and available with a variety of options for greater user flexibility



Counter Series

General Features



01.

Condensing Unit



- **Removable cassette type condensing unit and evaporator**
 - Zero down time, whole unit with evaporator can be replaced with new one immediately
 - Interchangeable temperature cassette unit allows flexible application
 - Easy for maintenance on-site if necessary
 - Allows ventilation and service maintenance at front, and thus enabling the compact equipment set up

02.

CoolSmart Controller



- **Automatic internal condition detecting to ensure efficient energy use**
Energy saving up to 15%
- **Intelligent defrost function**
Ensures the evaporator working to its optimum performance
- **The interval of compressor start and rest time can be limited**
Reduces wear and tear and prolonging compressor life
- **Self-diagnostics**
Self performance check to indicate the operational condition
- **Failsafe device for failure of thermocouple**
Minimises the loss of food products and reduces wear and tear of the compressor due to the sensors failed
- **Audible and visual Hi/Lo, door open (over 5 minutes) alarm for freezer**
Ensures food quality and minimises energy consumption
- **HACCP compliant**
Ensures the food safety of Williams products

03.

304 Grade stainless steel exterior and interior finish

Foodsafe, durable and easy cleaning

04.

High density insulation foam with zero ODP (Ozone Depletion Potential) and low GWP (Global Warming Potential)

Provides excellent thermal efficiency and is environmental-friendly

05.

Accurate helium leak detection system for entire refrigeration system

Quality guaranteed

06.

Automatic vaporising the defrost water in remote type

No drain connection is required

07.

Air release point on magnetic door gaskets

Excellent sealing and avoids slitting caused by door closing pressure

08.

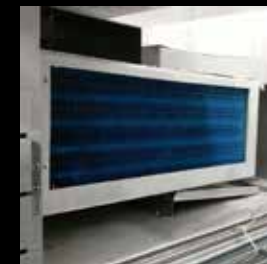
Designed and engineered to operate up to 43°C ambient

Effective in the harshest environment

09.

HACCP compliant

Ensures the food safety of Williams products



10.

Evaporator with Hydrophilic coated aluminum

Provides high corrosion resistance properties



11.

Varied table top profiles

Flexible for different customers' needs



12.

Adjustable racking system

Allows flexible storage and ease of cleaning



13.

Anti-tilt trayslides

Prevents tipping but easy to remove for cleaning



14.

Cylindrical door locks

Added security and stock control



15.

Door mullion heaters

Anti-condensation and prevents potential dirt traps



20.

Hygienic one-piece stainless steel dished base with radiused corners

Easy for cleaning and prevents potential dirt traps



16.

Optional Heated film glass door

Anti-condensation and clear visibility



21.

Air ducting for two sections or above

Ensures the cool air can spread to everywhere inside the counter



17.

Removable balloon type magnetic door gaskets

Prevents dirt traps and ensures easy replacement



22.

Forced air circulation system

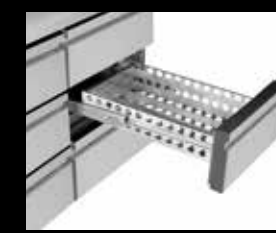
Ensures fast and even cool air distribution



18.

Self-closing doors

Avoids heat ingress and reduces energy consumption



23.

Optional fully extendable work out drawer

Allows vertical access (without bullnose at front) of the full-loaded GN pan



19.

Over 90° door opening

For easy loading and stock checking



24.

Adjustable legs or castors (optional)

Maximises flexibility and stability

Opal, Emerald & Bakery Key Features

Williams Refrigeration is renowned for its innovative designs and quality of product build

as well as its ability to provide tailor-made solutions. We have the technical know-how and expertise to design and create bespoke solutions.



Ergonomic counter design with different Gastronorm size and configurations to suit any application



01. Removable cassette type condensing unit and evaporator for easy servicing with zero down time
02. Excellent thermal efficiency, high density polyurethane insulation with Zero ODP (Ozone Depletion Potential) and Low GWP (Global Warming Potential)
03. Adjustable racking system allows flexible storage
04. Anti-condensation door mullion heaters
05. Removable anti-tilt trayslides to prevent tipping *
06. Self-closing doors minimise cool air loss and reduce energy consumption
07. Over 90° door opening allows easy loading and stock checking
08. Hygienic one-piece dished base with radiused corners avoids potential dirt traps *
09. Removable balloon type magnetic door gasket with air release points provides an excellent seal to prevent heat ingress, easy replacement and avoiding dirt traps

* Available for Opal and Emerald only

10. Air ducting for two sections or above ensures the cool air is spread to everywhere inside the counter
11. 150Hmm adjustable legs (±15 Hmm) to ensure stability on an uneven floor
12. Forced air refrigeration system ensures effective air circulation
13. CoolSmart controller with clear digital display is designed for easy operation
14. Imported, durable and energy-efficient compressors
15. Evaporator with Hydrophilic coated aluminum provides high corrosion resistance properties
16. Accurate helium leak detection system ensures the quality of the entire refrigeration system
17. Automatic defrost ensures the evaporator working to its optimum performance
18. Automatically vaporises defrost water, drainage is not required and applied to self-contain and remote type condensing unit
19. Designed and engineered to operate up to 43°C ambient
20. Environmental-friendly CFC-free refrigerant (R134a or R404a)
21. HACCP compliant

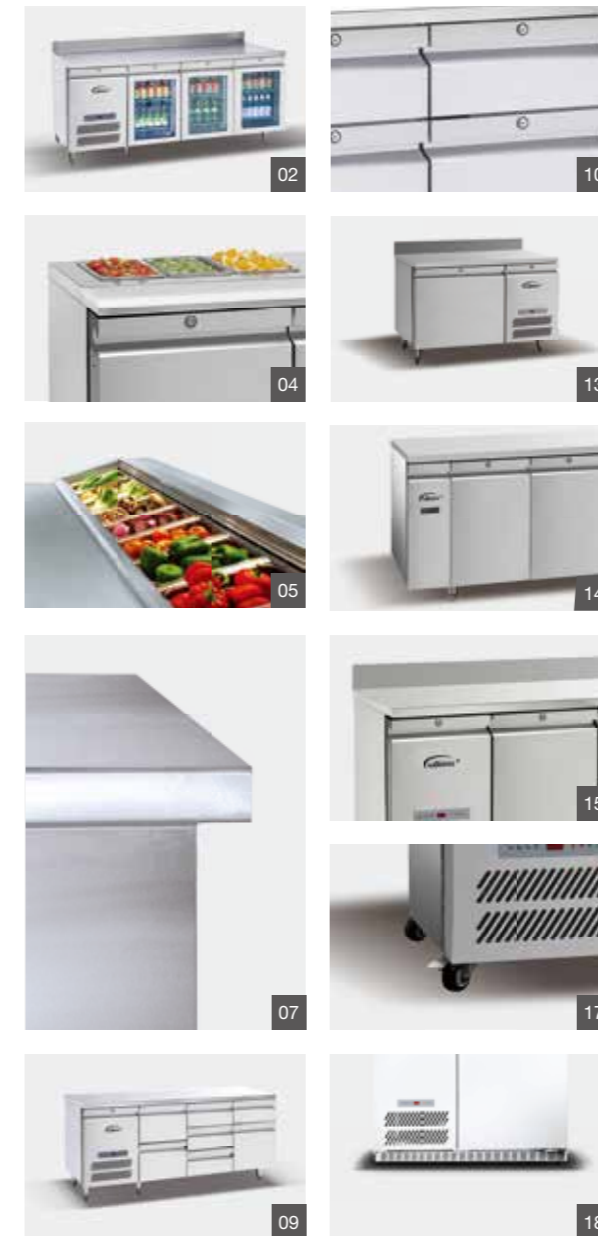


Opal, Emerald & Bakery Specification

- Accommodates 1/1 GN size for Opal
- Accommodates 2/1 GN size for Emerald
- Accommodates 400 x 600mm EN size for Bakery
- Foodsafe 304 grade stainless steel exterior and interior
- 1.5mm thick durable 304 grade stainless steel table top
- Galvanised steel exterior back and base
- Fitted with cylindrical lock for door(s)



Opal, Emerald & Bakery Options



01. 304 grade stainless steel exterior back / base
02. Heated film glass door
03. Pass through door
04. Saladette opening *
05. Raised pan holder *
06. Wooden board under table top
07. Table top extension
08. 2mm thick 304 grade stainless steel table top
09. 2, 3 or 1/3 + 2/3 drawers bank **
10. Cylindrical lock for drawer(s) **
11. Lock plate
12. Internal LED for door type
13. Right-hand-side condensing unit
14. Remote type condensing unit
15. Back / side splash
16. Front / side skirting
17. Castors in lieu of legs
18. 50Hmm skirting with louvre for sitting on plinth
19. Additional shelving/ trayslides for door type
20. 220V / 60HZ / 1PH

* Available for Opal and Emerald only
 # Not available for LO3U/R(J) and LE2U/R(J)

Opal, Emerald & Bakery

Product Code

Example:

HO3U(J)-XDNW-B-S

1 2 3 4 5 6 7



1. Temperature Range		
H	=	+1 / +4 °C
M	=	-2 / +2°C
L	=	-18 / -22 °C
2. Series		
O	=	Opal
E	=	Emerald
B	=	Bakery
3. Number of compartment		
1	=	1 compartment
2	=	2 compartments
3	=	3 compartments
4	=	4 compartments
4. Type of condensing unit		
U	=	Self-contained condensing unit
R	=	Remote condensing unit

5. Type of handle	
(J)	= New integral handle
6. Configuration	
X	= Location of the condensing unit / evaporator
D	= Door
N	= 2 drawers bank
W	= 3 drawers bank
T	= 1/3 + 2/3 drawers bank
7. Options	
S	= 304 grade stainless steel back
HGD	= Heated film glass door
PT	= Pass through door
B	= Back splash

Opal Product List

O1U(J)-XD	O2U(J)-XDD	O3U(J)-XDDD	O4U(J)-XDDDD
O1U(J)-XN	O2U(J)-XNN	O3U(J)-XNNN	O4U(J)-XNNNN
O1U(J)-XT	O2U(J)-XTT	O3U(J)-XTTT	O4U(J)-XTTTT
O1U(J)-XW	O2U(J)-XWW	O3U(J)-XWWW	O4U(J)-XWWWW

Opal Technical Data

Model	HO1U(J)	MO1U(J)	LO1U(J)	HO2U(J)	MO2U(J)	LO2U(J)
Temp Range (°C)	+1 / +4	-2 / +2	-18 / -22	+1 / +4	-2 / +2	-18 / -22
External Dimension (mm)						
Width	905		1370			
Depth	670					
Height	850					
Internal Dimension (mm)						
Width	390		855			
Depth	560					
Height	570					
Thickness of 304 grade stainless steel (mm)						
Exterior	0.7					
Interior	0.6					
Door or drawer	0.8					
Opening Depth (mm)						
Door type	1090					
Drawer type	1260					
Maximum loading height of drawer (mm per drawer)						
2 drawers bank	215					
3 drawers bank	115					
1/3 + 2/3 drawers bank			1/3 drawer: 120 2/3 drawer: 343			
Capacity (cu.ft / litres)	6.2 / 178		11.5 / 327			
Power Supply	220V / 50HZ / 1PH					
	13 amp plug					
Power Input - Running (amps)						
Door type	3.5	2.6	4	3.5	2.6	4.5
Drawer type	3.5	2.6	4	3.5	2.6	4.5
Rating Power (watts) *						
Door type	770	572	880	770	572	990
Drawer type	770	572	880	770	572	990
Compressor (HP)						
Door	1/4		7/16	1/4		5/8
2 drawers bank	1/4		7/16	1/4		5/8
3 drawers bank	1/4		7/16	1/3		5/8
Heat Rejection (watts) (Evaporating at -10°C in 32°C ambient)						
Door	485		1319	485		1844
2 drawers bank	485		1319	485		1844
3 drawers bank	485		1319	623		1844
Refrigerant	R134a		R404a	R134a		R404a
Standard fittings for door type						
PE coated shelves	2		4			
Trayslides (pair)	2		4			

* 20% increase for 60HZ power supply

V4

Opal Technical Data

Model	HO3U(J)	MO3U(J)	LO3U(J)	HO4U(J)	MO4U(J)
Temp Range (°C)	+1 / +4	-2 / +2	-18 / -22	+1 / +4	-2 / +2
External Dimension (mm)					
Width	1835		2300		
Depth	670				
Height	850				
Internal Dimension (mm)					
Width	1320		1785		
Depth	560				
Height	570				
Thickness of 304 grade stainless steel (mm)					
Exterior	0.7				
Interior	0.6				
Door or drawer	0.8				
Opening Depth (mm)					
Door type	1090				
Drawer type	1260		N/A		1260
Maximum loading height of drawer (mm per drawer)					
2 drawers bank	215		N/A		215
3 drawers bank	115		N/A		115
1/3 + 2/3 drawers bank	1/3 drawer: 120 2/3 drawer: 343		N/A		1/3 drawer: 120 2/3 drawer: 343
Capacity (cu.ft / litres)	16.8 / 476		22 / 625		
Power Supply	220V / 50HZ / 1PH				
	13 amp plug				
Power Input - Running (amps)					
Door type	3.5		4.5		
Drawer type	4.5		N/A		4.5
Rating Power (watts) *					
Door type	770		990		
Drawer type	990		N/A		990
Compressor (HP)					
Door	1/3		3/4		1/2
2 drawers bank	1/2		N/A		3/4
3 drawers bank	1/2		N/A		3/4
Heat Rejection (watts) (Evaporating at -10°C in 32°C ambient)					
Door	623		2229		950
2 drawers bank	950		N/A		1289
3 drawers bank	950		N/A		1289
Refrigerant	R134a		R404a	R134a	
Standard fittings for door type					
PE coated shelves	6		8		
Trayslides (pair)	6		8		

* 20% increase for 60HZ power supply

V4

Opal Technical Data

Model	HO1R(J)	MO1R(J)	LO1R(J)	HO2R(J)	MO2R(J)	LO2R(J)
Temp Range (°C)	+1 / +4	-2 / +2	-18 / -22	+1 / +4	-2 / +2	-18 / -22
External Dimension (mm)						
Width	680					1145
Depth	670					
Height	850					
Internal Dimension (mm)						
Width	390					855
Depth	560					
Height	570					
Thickness of 304 grade stainless steel (mm)						
Exterior	0.7					
Interior	0.6					
Door or drawer	0.8					
Opening Depth (mm)						
Door type	1090					
Drawer type	1260					
Maximum loading height of drawer (mm per drawer)						
2 drawers bank	215					
3 drawers bank	115					
1/3 + 2/3 drawers bank	1/3 drawer: 120 2/3 drawer: 343					
Capacity (cu.ft / litres)						
6.2 / 178					11.5 / 327	
Power Supply						
220V / 50HZ / 1PH 13 amp plug						
Power Input - Running (amps)						
Door type	5	7	5	7		
Drawer type	5	7	5	7		
Rating Power (watts) *						
Door type	1100	1540	1100	1540		
Drawer type	1100	1540	1100	1540		
Compressor (HP)						
Door	1/3	1/2	1/3	3/4		
2 drawers bank	1/3	5/8	1/3	3/4		
3 drawers bank	1/3	5/8	1/3	3/4		
Heat Rejection (watts) (Evaporating at -10°C in 32°C ambient)						
Door	623	1539	623	2229		
2 drawers bank	623	1844	623	2229		
3 drawers bank	623	1844	623	2229		
Remote condensing unit with housing (Width x Depth x Height) (mm)						
Door type	530 x 350 x 335			580 x 350 x 335		
Drawer type	530 x 350 x 335	580 x 350 x 335	530 x 350 x 335	580 x 350 x 335		
Refrigerant Pipe Size (inch)						
Door type - Suction pipe	3/8	1/2	3/8	1/2		
Door type - Liquid pipe	1/4	3/8	1/4			
Drawer type - Suction pipe	3/8			1/2		
Drawer type - Liquid pipe	1/4					
Maximum pipe length work (m)						
8						
Refrigerant						
R134a		R404a		R134a		R404a
Standard fittings for door type						
PE coated shelves	2		4			
Trayslides (pair)	2		4			

* 20% increase for 60HZ power supply

V4

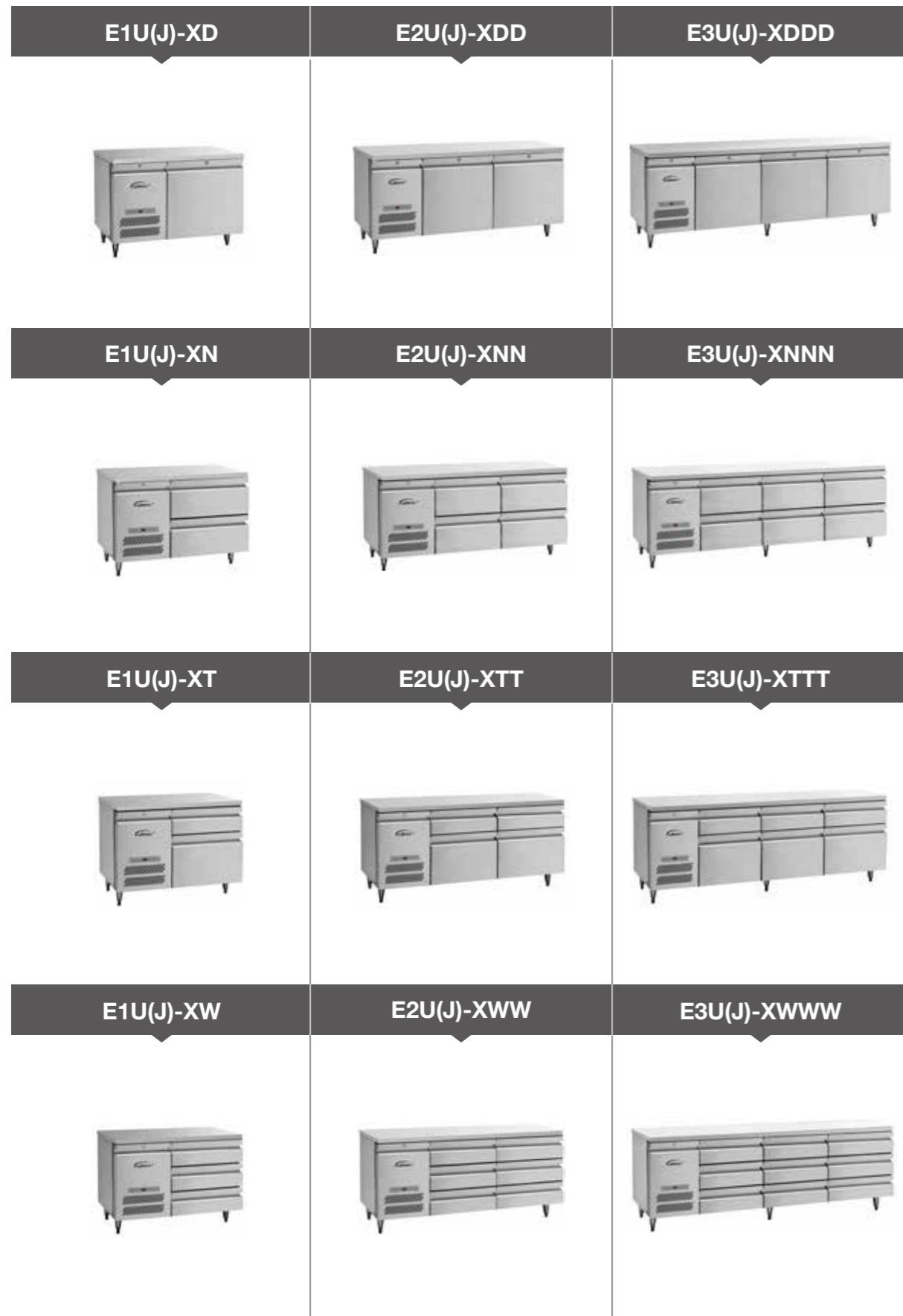
Opal Technical Data

Model	HO3R(J)	MO3R(J)	LO3R(J)	HO4R(J)	MO4R(J)	
Temp Range (°C)	+1 / +4	-2 / +2	-18 / -22	+1 / +4	-2 / +2	
External Dimension (mm)						
Width	1610		2075			
Depth	670					
Height	850					
Internal Dimension (mm)						
Width	1320		1785			
Depth	560					
Height	570					
Thickness of 304 grade stainless steel (mm)						
Exterior	0.7					
Interior	0.6					
Door or drawer	0.8					
Opening Depth (mm)						
Door type	1090					
Drawer type	1260	N/A	1260			
Maximum loading height of drawer (mm per drawer)						
2 drawers bank	215	N/A	215			
3 drawers bank	115	N/A	115			
1/3 + 2/3 drawers bank	1/3 drawer: 120 2/3 drawer: 343	N/A	1/3 drawer: 120 2/3 drawer: 343			
Capacity (cu.ft / litres)						
16.8 / 476					22 / 625	
Power Supply						
220V / 50HZ / 1PH 13 amp plug						
Power Input - Running (amps)						
Door type	5	7				
Drawer type	7	N/A	7			
Rating Power (watts) *						
Door type	1100	1540				
Drawer type	1540	N/A	1540			
Compressor (HP)						
Door	7/16	1/2	3/4			
2 drawers bank	3/4	N/A	3/4			
3 drawers bank	3/4	N/A	3/4			
Heat Rejection (watts) (Evaporating at -10°C in 32°C ambient)						
Door	887	950	2229	1289		
2 drawers bank	1289		N/A	1289		
3 drawers bank	1289		N/A	1289		
Remote condensing unit with housing (Width x Depth x Height) (mm)						
Door type	530 x 350 x 335	580 x 350 x 335		730 x 495 x 400		
Drawer type	730 x 495 x 400		N/A	730 x 495 x 400		
Refrigerant Pipe Size (inch)						
Door type - Suction pipe	1/2	3/8	1/2			
Door type - Liquid pipe	3/8	1/4	3/8			
Drawer type - Suction pipe	1/2	N/A	1/2			
Drawer type - Liquid pipe	3/8	N/A	3/8			
Maximum pipe length work (m)						
8						
Refrigerant						
R134a		R404a		R134a		
Standard fittings for door type						
PE coated shelves	6		8			
Trayslides (pair)	6		8			

* 20% increase for 60HZ power supply

V4

Emerald Product List



Emerald Technical Data

Model	HE1U(J)	ME1U(J)	LE1U(J)	HE2U(J)	ME2U(J)	LE2U(J)	HE3U(J)	ME3U(J)	LE3U(J)	
Temp Range (°C)	+1 / +4	-2 / +2	-18 / -22	+1 / +4	-2 / +2	-18 / -22	+1 / +4	-2 / +2	-18 / -22	
External Dimension (mm)										
Width	1102			1765			2426			
Depth	770									
Height	850									
Internal Dimension (mm)										
Width	587			1250			1911			
Depth	660									
Height	570									
Thickness of 304 grade stainless steel (mm)										
Exterior	0.7									
Interior	0.6									
Door or drawer	0.8									
Opening Depth (mm)										
Door type	1387									
Drawer type	1460			N/A			1460		N/A	
Maximum loading height of drawer (mm per drawer)										
2 drawers bank	215			N/A			215		N/A	
3 drawers bank	115			N/A			115		N/A	
1/3 + 2/3 drawers bank	1/3 drawer: 120 2/3 drawer: 343			N/A			1/3 drawer: 120 2/3 drawer: 343		N/A	
Capacity (cu.ft / litres)										
	10.2 / 290			19.3 / 547			28.3 / 803			
Power Supply										
	220V / 50HZ / 1PH									
	13 amp plug									
Power Input - Running (amps)										
Door type	3	4	3	3.5	4	3.5	4.5	4.5		
Drawer type	3	4	3	3.5	N/A	3.5	4.5	N/A		
Rating Power (watts) *										
Door type	660	880	660	770	880	770	990	990		
Drawer type	660	880	660	770	N/A	770	990	N/A		
Compressor (HP)										
Door	1/4	7/16	1/4	5/8	1/2	3/4				
2 drawers bank	1/4	7/16	1/4	N/A	1/2	N/A				
3 drawers bank	1/4	7/16	1/4	N/A	1/2	N/A				
Heat Rejection (watts) (Evaporating at -10°C in 32°C ambient)										
Door	485	1319	485	1844	950	1289				
2 drawers bank	485	1319	485	N/A	950	N/A				
3 drawers bank	485	1319	623	N/A	950	N/A				
Refrigerant										
	R134a		R404a		R134a		R404a		R134a	R404a
Standard fittings for door type										
PE coated shelves	2			4			6			
Trayslides (pair)	2			4			6			

* 20% increase for 60HZ power supply

v4

Emerald Technical Data

Model	HE1R(J)	ME1R(J)	LE1R(J)	HE2R(J)	ME2R(J)	LE2R(J)	HE3R(J)	ME3R(J)	LE3R(J)
Temp Range (°C)	+1 / +4	-2 / +2	-18 / -22	+1 / +4	-2 / +2	-18 / -22	+1 / +4	-2 / +2	-18 / -22
External Dimension (mm)									
Width	877		1540			2201			
Depth	770								
Height	850								
Internal Dimension (mm)									
Width	587		1250			1911			
Depth	660								
Height	570								
Thickness of 304 grade stainless steel (mm)									
Exterior	0.7								
Interior	0.6								
Door or drawer	0.8								
Opening Depth (mm)									
Door type	1387								
Drawer type	1460			N/A		1460		N/A	
Maximum loading height of drawer (mm per drawer)									
2 drawers bank	215			N/A		215		N/A	
3 drawers bank	115			N/A		115		N/A	
1/3 + 2/3 drawers bank	1/3 drawer: 120 2/3 drawer: 343			N/A		1/3 drawer: 120 2/3 drawer: 343		N/A	
Capacity (cu.ft / litres)	7.8 / 220		16.8 / 475			25.6 / 725			
Power Supply	220V / 50HZ / 1PH 13 amp plug								
Power Input - Running (amps)									
Door type	5		7		5		7		
Drawer type	5		7		5		N/A		7
Rating Power (watts) *									
Door type	1100		1540		1100		1540		
Drawer type	1100		1540		1100		N/A		1540
Compressor (HP)									
Door	1/3		5/8		1/3		3/4		1
2 drawers bank	1/3		5/8		1/3		N/A		3/4
3 drawers bank	1/3		5/8		1/3		N/A		3/4
Heat Rejection (watts) (Evaporating at -10°C in 32°C ambient)									
Door	623		1844		623		2229		1289
2 drawers bank	623		1844		623		N/A		1289
3 drawers bank	623		1844		623		N/A		1289
Remote condensing unit with housing (Width x Depth x Height) (mm)									
Door type	530 x 350 x 335		530 x 350 x 335		530 x 350 x 335		730 x 495 x 400		
Drawer type	530 x 350 x 335		530 x 350 x 335		530 x 350 x 335		N/A		
Refrigerant Pipe Size (inch)									
Door type - Suction pipe	3/8				1/2				
Door type - Liquid pipe	1/4				3/8				
Drawer type - Suction pipe	3/8				N/A		1/2		N/A
Drawer type - Liquid pipe	1/4				N/A		3/8		N/A
Maximum pipe length work (m)	8								
Refrigerant	R134a		R404a		R134a		R404a		R134a
Standard fittings for door type									
PE coated shelves	2		4			6			
Trayslides (pair)	2		4			6			

* 20% increase for 60HZ power supply

Bakery Product List



B1U(J)-XD



B2U(J)-XDD



B3U(J)-XDDD



Bakery Technical Data

Model	HB1U(J)	HB2U(J)	HB3U(J)	HB1R(J)	HB2R(J)	HB3R(J)
Temp Range (°C)	+1 / +4	+1 / +4	+1 / +4	+1 / +4	+1 / +4	+1 / +4
External Dimension (mm)						
Width	970	1500	2030	745	1275	1805
Depth	760					
Height	850					
Internal Dimension (mm)						
Width	455	985	1513	455	985	1513
Depth	650					
Height	570					
Thickness of 304 grade stainless steel (mm)						
Exterior	0.7					
Interior	0.6					
Door	0.8					
Opening Depth (mm)	1243					
Capacity (cu.ft / litres)	8.1 / 230	15.1 / 428	22 / 625	8.1 / 230	15.1 / 428	22 / 625
Power Supply	220V / 50HZ / 1PH					
	13 amp plug					
Power Input - Running (amps)	2.5	4.5	3.5	7		
Rating Power (watts) *	550	990	770	1540		
Compressor (HP)	1/4	1/2	1/4	1/3	1/2	
Heat Rejection (watts) (Evaporating at -10°C at 32°C ambient)	485	950	485	623	950	
Remote condensing unit with housing (Width x Depth x Height) (mm)	N/A		530 x 350 x 335		580 x 350 x 335	
Refrigerant Pipe Size (inch)						
Suction pipe	N/A		3/8			
Pressure pipe	N/A		1/4			
Maximum pipe length work (m)	N/A		8			
Refrigerant	R134a					
Standard fittings						
PE coated shelves	2	4	6	2	4	6
Trayslides (pair)	2	4	6	2	4	6

* 20% increase for 60HZ power supply

V4

Aztra Key Features

Space saving design allows compact refrigeration equipment set up



01. 5UC model is designed for under counter installation with lower height (840mm)
02. Excellent thermal efficiency, high density polyurethane insulation with Zero ODP (Ozone Depletion Potential) and Low GWP (Global Warming Potential)
03. Adjustable racking system allows flexible storage
04. Anti-condensation door mullion heaters fitted for freezer models
05. Removable anti-tilt trayslides to prevent tipping
06. Self-closing doors minimise cool air loss and reduce energy consumption
07. Over 90° door opening allows easy loading and stock checking
08. Removable balloon type magnetic door gasket with air release points provides an excellent seal to prevent heat ingress, easy replacement and avoiding dirt traps
09. 20mm levelling feet at front to ensure stability on an uneven floor and 15mm castors at rear
10. Forced air refrigeration system ensures effective air circulation
11. Imported, durable and energy-efficient compressor
12. Evaporator with Hydrophilic coated aluminum provides high corrosion resistance properties
13. Accurate helium leak detection system ensures the quality of the entire refrigeration system
14. Automatic defrost ensures the evaporator working to its optimum performance
15. Automatically vaporises defrost water, drainage is not required
16. Designed and engineered to operate up to 43°C ambient
17. Environmental-friendly CFC-free refrigerant (R134a or R404a)
18. HACCP compliant