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-stie 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.

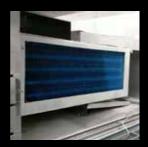
Designed and engineered to operate up to 43°C ambient

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



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.



Opal, Emerald & Bakery Key Features

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



* Available for Opal and Emerald only

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



- 1). 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



Professional Refrigeration > Counter Series

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























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

- 304 grade stainless steel exterior back / base
- ○3. Pass through door
- ()4. Saladette opening *
- 05. Raised pan holder *
- ○○ Wooden board under table top
- 7. Table top extension
- 2mm thick 304 grade stainless steel table top
- 9. 2, 3 or 1/3 + 2/3 drawers bank *#
- 1 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
- 1 O. Additional shelving/ trayslides for door type
- 20. 220V / 60HZ / 1PH



Opal, Emerald & Bakery

Product Code

Example:





1. Temperature Range							
Н	=	+1 / +4 °C					
М	=	-2 / +2°C					
L	=	-18 / -22 °C					
2 6	eries						
2. 3	enes						
0	=	Opal					
Е	=	Emerald					
В	=	Bakery					
3. N	umber	of compartment					
1	=	1 compartment					
2	=	2 compartments					
3	=	3 compartments					
4	=	4 compartments					
4. T	ype of c	condensing unit					

Self-contained condensing unit

Remote condensing unit

5. Type of handle						
(J)	=	New integral handle				
		-				
6. Co	nfigur	ation				
X	=	Location of the condensing unit / evaporator				
D	=	Door				
N	=	2 drawers bank				
W	=	3 drawers bank				
Т	=	1/3 + 2/3 drawers bank				
7. Op	tions					
S	=	304 grade stainless steel back				
HGD	=	Heated film glass door				
PT	=	Pass through door				
В	=	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

Professional Refrigeration > Counter Series > Self-contained type

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			67	70			
Height	850						
Internal Dimension (mm)							
Width		390			855		
Depth			56	60			
Height			57	70			
Thickness of 304 grade stain	less steel (m	m)					
Exterior			0	.7			
Interior			0	.6			
Door or drawer			0	.8			
Opening Depth (mm)							
Door type			10	90			
Drawer type			12	60			
Maximum loading height of de	rawer (mm p	er drawer)					
2 drawers bank			2	15			
3 drawers bank			1:	15			
1/3 + 2/3 drawers bank	1/3 drawer: 120 2/3 drawer: 343						
Capacity (cu.ft / litres)		6.2 / 178			11.5 / 327		
Dawer Cumb	220V / 50HZ / 1PH						
Power Supply			13 am	p 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) (Evapo	rating at -10	°C in 32°C an	nbient)				
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	e						
PE coated shelves	2			4			
Trayslides (pair)		2		4			

^{* 20%} increase for 60HZ power supply



Professional Refrigeration > Counter Series > Self-contained type

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					
	nternal Dimension (mm)							
Width		1320		17	785			
Depth			560					
Height			570					
Thickness of 304 grade stai	nless steel (mm)							
Exterior			0.7					
Interior			0.6					
Door or drawer			0.8					
Opening Depth (mm)								
Door type			1090	1				
Drawer type	12	260	N/A	12	260			
Maximum loading height of	drawer (mm per	drawer)						
2 drawers bank	2	15	N/A	215				
3 drawers bank	1	15	N/A	115				
1/3 + 2/3 drawers bank		wer: 120 wer: 343	N/A	1/3 drawer: 120 2/3 drawer: 343				
Capacity (cu.ft / litres)	16.8 / 476			22 /	⁷ 625			
Power Supply	220V / 50HZ / 1PH							
Power Supply			13 amp plug					
Power Input - Running (amp	s)							
Door type	3	3.5		4.5				
Drawer type	4	.5	N/A 4.5		.5			
Rating Power (watts) *								
Door type	7	70		990				
Drawer type	9	990		9	90			
Compressor (HP)								
Door	1	/3	3/4		/2			
2 drawers bank	1	1/2		3/4				
3 drawers bank	1	1/2		3/4				
Heat Rejection (watts) (Evap	orating at -10°C	in 32°C ambier	nt)	di .				
Door	623		2229	9	50			
2 drawers bank	950		N/A	1289				
3 drawers bank	9	950		1289				
Refrigerant	R134a R404a			R134a				
Standard fittings for door ty	pe		1	1				
PE coated shelves		6			8			
Trayslides (pair)		6			8			

 $^{^{\}ast}$ 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			8	50		
Internal Dimension (mm)						
Width		390			855	
Depth			50	60		
Height			5	70		
Thickness of 304 grade stair	iless steel (n	nm)				
Exterior			0	.7		
Interior			0	.6		
Door or drawer			0	.8		
Opening Depth (mm)						
Door type			10	90		
Drawer type			12	60		
Maximum loading height of d	rawer (mm p	er drawer)				
2 drawers bank			2	15		
3 drawers bank			1	15		
1/3 + 2/3 drawers bank				wer: 120 wer: 343		
Capacity (cu.ft / litres)		6.2 / 178			11.5 / 327	
Power Supply)HZ / 1PH p plug		
Power Input - Running (amps	.)			p p.u.g		
Door type		5	7	1	 5	7
Drawer type	5		7	5		7
Rating Power (watts) *			,			,
Door type	11	00	1540	1100		1540
Drawer type		00	1540	1100		1540
Compressor (HP)		00	1040		00	1040
Door	1	/3	1/2	1	/3	3/4
2 drawers bank		/3		5/8 1/3		3/4
3 drawers bank		/3	5/8		/3	3/4
Heat Rejection (watts) (Evapo				1	70	0/4
Door		23	1539	6	23	2229
2 drawers bank			1844			2229
3 drawers bank	623 623		1844		23	2229
					20	2223
Door type	h housing (Width x Depth x Height) (mm) 530 x 350 x 335					580 x 350 x 335
Drawer type	530 × 350 × 335 580 x 350 x			530 x 35	50 x 335	580 x 350 x 335
Refrigerant Pipe Size (inch)			335	1		
Door type - Suction pipe	2	/8	1/2	2	/8	1/2
Door type - Liquid pipe			3/8	0.	1/4	1/2
Drawer type - Suction pipe	1/4 3/8 1/4 3/8			./-	1/2	
Drawer type - Suction pipe Drawer type - Liquid pipe				/4		1/2
Maximum pipe length work (m)				8		
Refrigerant			34a	R404a		
Standard fittings for door typ		о т а	114044	l ni	о т а	114044
PE coated shelves	,,,	2			4	
		2				
Trayslides (pair)	2 4					

^{* 20%} increase for 60HZ power supply



Professional Refrigeration > Counter Series > Remote Type

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		17	'85		
Depth			560				
Height 570							
Thickness of 304 grade stair	nless steel (mm)					
Exterior			0.7				
Interior			0.6				
Door or drawer			0.8				
Opening Depth (mm)							
Door type			1090				
Drawer type		60	N/A	12	160		
Maximum loading height of c	lrawer (mm per	drawer)					
2 drawers bank	2	15	N/A	2	15		
3 drawers bank	11	15	N/A	1	15		
1/3 + 2/3 drawers bank	1/3 drav 2/3 drav		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	<u> </u>		io amp plag				
Door type	5 7						
Drawer type		7	N/A		7		
Rating Power (watts) *			14/74		ı		
Door type	11	00		1540			
Drawer type	15		N/A 1540		340		
Compressor (HP)	13	40	IN/A	10	740		
Door	7/16	1/2		3/4			
2 drawers bank		/4	N/A 3/4		//		
3 drawers bank		4/4	N/A	3/4			
Heat Rejection (watts) (Evap				TV/A 3/4			
Door	887	950	2229	10	990		
2 drawers bank		89	N/A	1289 1289			
3 drawers bank		89	N/A	1289			
Remote condensing unit with				12	.03		
Door type	530 x 350 x 335		50 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)	1		'				
Door type - Suction pipe	1/2	3/8		1/2			
Door type - Liquid pipe	3/8		/4		/8		
Drawer type - Suction pipe	1/2		N/A	1/2			
Drawer type - Liquid pipe		/8	N/A 3/8				
Maximum pipe length work (m)	n) 8						
Refrigerant	R134a R404a						
Standard fittings for door type		/	11.010				
PE coated shelves		6			8		
Trayslides (pair)		6	8				
naysiides (paii)		U			U .		

^{* 20%} increase for 60HZ power supply

V

