

Drop Ins

8100-EF, N8000, N8000N, N8000-R, N8100B, N8100-BR, N8100-FA, N8200, N8200G, N8200-ST, N8600, N8700-D, N8700-DESP, N8700-R, N8800

Original Instructions Installation, Operation and Maintenance Manual

This manual is updated as new information and models are released. Visit our website for the latest manual.





WELBILT

Safety Notices

A Warning

Read this manual thoroughly before operating, installing or performing maintenance on the equipment. Failure to follow instructions in this manual can cause property damage, injury or death.

A DANGER

Keep power cord AWAY from HEATED surfaces. DO NOT immerse power cord or plug in water. DO NOT let power cord hang over edge of table or counter.

A DANGER

Do not lift the condensing unit by the refrigerant tubing or other components. These features will not support the condensing unit weight. Injury and unit damage may occur!

A DANGER

Do not install or operate equipment that has been misused, abused, neglected, damaged, or altered/modified from that of original manufactured specifications.

A DANGER

All utility connections and fixtures must be maintained in accordance with Local and national codes.

A Warning

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision concerning use of the appliance by a person responsible for their safety. Do not allow children to play with this appliance.

A Warning

Do not store or use gasoline or other flammable vapors or liquids in the vicinity of this or any other appliance. Never use flammable oil soaked cloths or combustible cleaning solutions, for cleaning.

AWarning

Authorized Service Representatives are obligated to follow industry standard safety procedures, including, but not limited to, local/national regulations for disconnection / lock out / tag out procedures for all utilities including electric, gas, water and steam.

▲ Warning

This product contains chemicals known to the State of California to cause cancer and/or birth defects or other reproductive harm. Operation, installation, and servicing of this product could expose you to airborne particles of glasswool or ceramic fibers, crystalline silica, and/or carbon monoxide. Inhalation of airborne particles of glasswool or ceramic fibers is known to the State of California to cause cancer. Inhalation of carbon monoxide is known to the State of California to cause birth defects or other reproductive harm.

AWarning

Do not use electrical appliances or accessories other than those supplied by the manufacturer.

A Warning

Use caution when handling metal surface edges of all equipment.

A Warning

DO NOT touch refrigeration lines inside units; some may exceed temperatures of 200°F (93.3°C).

Note

Proper installation, care and maintenance are essential for maximum performance and trouble-free operation of your equipment. Visit our website www. mtwkitchencare.com for manual updates, translations, or contact information for service agents in your area.

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Section 1 General Information

Model Numbers

iodei Nuilibei		
	8100-EF Series	
	ic Fluid Refrigerated C	
8118-EF	8132-EF	8145-EF
8159-EF	8172-EF	8186-EF
	8100-EF-E Export Serie	
	ic Fluid Refrigerated C	
8118-EF-E	8132-EF-E	8145-EF-E
8159-EF-E	8172-EF-E	8186-EF-E
	8100-EFN Series	
Liqui iec" Siim Lii	ne Eutetic Fluid Refrig	erated Cold Pans -
0140 FFN	R404A	0101 FFN
8148-EFN	8169-EFN	8191-EFN
	100-EFN-E Export Ser	
ridai iec. Siim rii	ne Eutetic Fluid Refrig	erated Cold Pans -
0140 FFN F	R404A	0101 FFN F
8148-EFN-E	8169-EFN-E	8191-EFN-E
	N8000 Series	
N8018	Ice Cooled Cold Pans	N8043
	N8030	
N8056	N8069	N8081
NI-	N8000N Series	N
	rrow Ice Cooled Cold I	rans
N8046N	N8068N N8000-R Series	
C)
	rved Ice Cooled Cold I	1
N8044-R N8094-R	N8059-R	N8076-R
N8094-R	N8100B Series	
Salf Contains	ed Mechanically Coole	d Dans DAAAA
N8118B	N8130B	N8143B
N8156B	N8169B	N8181B
	N8100B-E Export Serie	<u> </u>
	d Mechanically Coole	
N8118B-E	N8130B-E	N8143B-E
	N8100B-E Export Serie	
	d Mechanically Coole	
N8156B-E	N8169B-E	
1101505 E	N8100BR Series	
Curved Self-Cont	ained Mechanically Co	noled Pans - R404A
N8144-BR	N8159-BR	N8176-BR
N8194-BR	110107 511	1.0170 5.1
	N8100-FA Series	J.
Forced Air Drop-I	n Mechanically Cooled	d Cold Pans - R404A
N8131-FA	N8144-FA	N8157-FA
N8169-FA	N8182-FA	
	N8100NB Series	ı
Self-Contained N	Nechanically Cooled P	ans Narrow Style -
	R404A	
N8146NB	N8168NB	
	18100NB-E Export Ser	ies
	Nechanically Cooled P	
	R404A	
N8146NB-E	N8168NB-E	
		<u>i</u>

	N8200 Series	
	ontained Frost Tops -	
N8231	N8245	N8259
N8273	N8287	_
	N8200-E Export Series Ontained Frost Tops -	
N8231-E	N8245-E	N8259-E
N8273-E	N8287-E	NO2J9-L
NOZ7 J-L	N8200G Series	
Self-Co	ontained Granite Cold	l Slahs
N8231G	N8245G	N8259G
N8273G	.102.00	1.102070
	8200G-E Export Serie	2S
	ined Granite Cold Sla	
N8231G-E	N8245G-E	N8259G-E
	N8200-ST Series	
Self-Co	ontained Frost Tops -	R404A
N8230-ST	N8240-ST	N8256-ST
N8258-ST	N8275-ST	
	N8600 Series	
	mbination Hot/Cold F	
N8630	N8643	N8656
N8669	N8681	
	N8700D Series	- 1147 11
	y Controlled Heated	·
N8717-D N8759-D	N8731-D N8773-D	N8745-D N8787-D
	8700D-E Export Serie	
	y Controlled Heated	
N8717-D-E	N8731-D-E	N8745-D-E
N8759-D-E	N8773-D-E	N8787-D-E
.1070702	N8700DESP Series	11070702
Individually Contro	olled Energy Savings	Heated Food Wells
N8717-DESP	N8731-DESP	N8745-DESP
N8759-DESP	N8773-DESP	N8787-DESP
N87	00-D-ESP-E Export Se	eries
Individually Contro	olled Energy Savings	Heated Food Wells
N8717-D-ESP-E	N8731-D-ESP-E	N8745-D-ESP-E
N8759-D-ESP-E	N8773-D-ESP-E	N8787-D-ESP-E
	N8700N Series	
	ontrolled Heated Nari	
N8746ND	N8768N	N8768ND
	N8700-R Series	
	ually Controlled Hea	
N8744-R	N8759-R	N8776-R
N8794-R	N8800 Series	
Cinala.	เพชชนน Series Tank Electric Hot Foo	d Walls
N8831	N8845	N8859
N8873	N8887	110039
	N8800-E Export Serie	S
	Tank Electric Hot Foo	
N8831-E	N8845-E	N8859-E
N8873-E	N8887-E	

General Information Section 1

Serial Number Location

Ther serial number is listed on the serial tag. If applicable it will also list the refrigerant used and the amount of charge.

- The serial tag on self-contained refrigerated units is located near the condensing unit.
- The serial tag on ice cooled units and remote refrigerated units is on the outside bottom of the food well.
- On hot food pans and hot/cold combination pans, the serial tag is located on the back of the control raceway or remote panel.

Always have the serial number of your unit available when calling for parts or service.

Warranty Information

- Register your product for warranty,
- Verify warranty information,
- View and download a copy of your warranty,

at www.delfield.com/warranty

Regulatory Certifications

DOMESTIC MODELS

All domestic models are certified by:



NSF) National Sanitation Foundation (NSF)

All domestic electrical models are certified by:



Underwriters Laboratories (UL)



c Underwriters Laboratories of Canada (cUL)

Domestic N8700DESP models are also certified by:



Technical Inspection Association

C€ European Conformity

EXPORT MODELS

All export models are certified by:



NSF) National Sanitation Foundation (NSF)



Technical Inspection Association

C€ European Conformity

A DANGER

Installation must comply with all applicable fire and health codes in your jurisdiction.

A DANGER

Use appropriate safety equipment during installation and servicing.

AWarning

Remove all removable panels before lifting and installing.

AWarning

If a refrigerated base does not have a condensate evaporator supplied, you must connect the condensate line to a suitable drain. Otherwise, water will collect on the floor, causing a potentially hazardous situation.

A Warning

Moisture collecting from improper drainage can create a slippery surface on the floor and a hazard to employees. It is the owner's responsibility to provide a container or outlet for drainage.

AWarning

Do not damage the refrigeration circuit when installing, maintaining or servicing the unit.

A Warning

This equipment must be positioned so that the plug is accessible unless other means for disconnection from the power supply (e.g., circuit breaker or disconnect switch) is provided.

A Warning

Adequate means must be provided to limit the movement of this appliance without depending on or transmitting stress to the electrical conduit.

A Warning

To avoid instability the installation area must be capable of supporting the combined weight of the equipment and product. Additionally the equipment must be level side to side and front to back.

▲Warning

This equipment is intended for indoor use only. Do not install or operate this equipment in outdoor areas.

! Caution

The units with LiquiTec technology cold pans contain a non-toxic eutectic fluid within a sealed inner liner. This fluid may leak if the tank is punctured so care must be taken when uncrating and setting in place. The eutectic fluid is non-toxic and may be flushed down a disposal drain. Units with a Eutectic Fluid Cold Pan require the same precautions. The fluid is NOT refillable and loss of fluid due to a puncture would cause irreparable damage. If the LiquiTec unit cold pans leak, immediately call the Delfield service department directly at 1-800-733-8821 not your local service agent.

∴ Caution

Do not position the air intake vent near steam or heat exhaust of another appliance.

Location

The location selected for the equipment must meet the following criteria. If any of these criteria are not met, select another location.

- Units are intended for indoor use only.
- The location MUST be level, stable and capable of supporting the weight of the equipment.
- The location MUST be free from and clear of combustible materials.
- Equipment MUST be level both front to back and side to side.
- Position the equipment so it will not tip or slide.
- Recommended air temperature is 41° 86°F (5° 30°C).
- Proper air supply for ventilation is REQUIRED AND CRITICAL for safe and efficient operation. Refer to Clearance Requirements chart on page 12.
- Do not obstruct the flow of ventilation air. Make sure the air vents of the equipment are not blocked.
- Do not install the equipment directly over a drain.
 Steam rising up out of the drain will adversely affect operation, air circulation, and damage electrical / electronic components.

Weight Of Equipment

Model	Ship Weight
8100-E	
8118-EF	169lbs (77kg)
8132-EF	215lbs (98kg)
8145-EF	265lbs (120kg)
8159-EF	285lbs (130kg)
8172-EF	295lbs (134kg)
8186-EF	394lbs (179kg)
8100-EF-E E	xport Series
8118-EF-E	169lbs (77kg)
8132-EF-E	215lbs (98kg)
8145-EF-E	265lbs (120kg)
8159-EF-E	285lbs (130kg)
8172-EF-E	295lbs (134kg)
8186-EF-E	394lbs (179kg)
8100-EF	N Series
8148-EFN	235lbs (107kg)
8169-EFN	285lbs (130kg)
8191-EFN	295lbs (134kg)
8100-EFN-E I	
8148-EFN-E	235lbs (107kg)
8169-EFN-E	285lbs (130kg)
8191-EFN-E	295lbs (134kg)
N8000	
N8018	38lbs (17kg)
N8030	84lbs (38kg)
N8043	110lbs (50kg)
N8056	139lbs (63kg)
N8069	160lbs (73kg)
N8081	197lbs (89kg)
N8000N	N Series
N8046N	100lbs (45kg)
N8068N	120lbs (55kg)
N8000-	R Series
N8044-R	100lbs (45kg)
N8059-R	118lbs (53kg)
N8076-R	145lbs (65kg)
N8094-R	164lbs (74kg)
N8100E	
N8118B	100lbs (45kg)
N8130B	140lbs (64kg)
N8143B	173lbs (78kg)
N8156B	205lbs (93kg)
N8169B	225lbs (102kg)
N8181B	258lbs (117kg)
-	rt Series - R404A
N8118B-E	100lbs (45kg)
N8130B-E	140lbs (64kg)
N8143B-E	173lbs (78kg)
	t Series - R134A
N8156B-E	205lbs (93kg)
N8169B-E	225lbs (102kg)
N8100B	
N8144-BR	161lbs (72kg)
N8159-BR	184lbs (83kg)
N8176-BR	233lbs (105kg)
N8194-BR	243lbs (109kg)

Model	Ship Weight
	A Series
N8131-FA	168lbs (76kg)
N8144-FA	175lbs (79kg)
N8157-FA	225lbs (102kg)
N8169-FA	235lbs (107kg)
N8182-FA	406lbs (184kg)
	IB Series
N8146NB	175lbs (80kg)
N8168NB	240lbs (109kg)
	Export Series
N8146NB-E	175lbs (80kg)
N8168NB-E	240lbs (109kg)
	Series
N8231	142lbs (64kg)
N8245	168lbs (76kg)
N8259	193lbs (88kg)
N8273	209lbs (95kg)
N8287	239lbs (108kg)
	port Series
N8231-E	142lbs (64kg)
N8245-E	168lbs (76kg)
N8259-E	193lbs (88kg)
N8273-E	209lbs (95kg)
N8287-E	239lbs (108kg)
N8200	G Series
N8231G	219lbs (99kg)
N8245G	284lbs (129kg)
N8259G	338lbs (153kg)
N8273G	425lbs (193kg)
N8200G-E E	xport Series
N8231G-E	219lbs (99kg)
N8245G-E	284lbs (129kg)
N8259G-E	338lbs (153kg)
N8200-5	T Series
N8230-ST	142lbs (64kg)
N8240-ST	168lbs (76kg)
N8256-ST	193lbs (88kg)
N8258-ST	209lbs (95kg)
N8275-ST	239lbs (108kg)
	Series
N8630	164lbs (74kg)
N8643	198lbs (90kg)
N8656	233lbs (106kg)
N8669	266lbs (121kg)
N8681	301lbs (137kg)
	O Series
N8717-D	41lbs (19kg)
N8731-D	99lbs (45kg)
N8745-D	134lbs (61kg)
N8759-D	166lbs (75kg)
N8773-D	186lbs (84kg)
N8787-D	236lbs (107kg)
	xport Series
N8717-D-E	41lbs (19kg)
N8731-D-E	99lbs (45kg)
N8745-D-E	134lbs (61kg)
N8759-D-E	166lbs (75kg)
N8773-D-E	186lbs (84kg)
N8787-D-E	236lbs (107kg)

Model	Ship Weight			
N8700DESP Series				
N8717-DESP	41lbs (19kg)			
N8731-DESP	99lbs (45kg)			
N8745-DESP	134lbs (61kg)			
N8759-DESP	166lbs (75kg)			
N8773-DESP	186lbs (84kg)			
N8787-DESP	236lbs (107kg)			
N8700-D-ESP-	E Export Series			
N8717-D-ESP-E	41lbs (19kg)			
N8731-D-ESP-E	99lbs (45kg)			
N8745-D-ESP-E	134lbs (61kg)			
N8759-D-ESP-E	166lbs (75kg)			
N8773-D-ESP-E	186lbs (84kg)			
N8787-D-ESP-E	236lbs (107kg)			
N8700	N Series			
N8746ND	100lbs (45kg)			
N8768N	130lbs (59kg)			
N8768ND	130lbs (59kg)			
N8700-	R Series			
N8744-R	99lbs (45kg)			
N8759-R	134lbs (61kg)			
N8776-R	166lbs (75kg)			
N8794-R	186lbs (84kg)			
N8800	Series			
N8831	100lbs (45kg)			
N8845	136lbs (62kg)			
N8859	158lbs (72kg)			
N8873	195lbs (88kg)			
N8887	224lbs (102kg)			
N8800-E Ex	cport Series			
N8831-E	100lbs (45kg)			
N8845-E	136lbs (62kg)			
N8859-E	158lbs (72kg)			
N8873-E	195lbs (88kg)			
N8887-E	224lbs (102kg)			

Dimensions

Model	Length	Depth	Height	12x20
				Pans
	810	0-EF Series		
8118-EF	18.20"	26"	23.25"	1
	(46cm)	(66cm)	(59cm)	
8132-EF	31.76"	26"	23.25"	2
	(81cm)	(66cm)	(59cm)	
8145-EF	45.32"	26"	23.25"	3
	(115cm)	(66cm)	(59cm)	
8159-EF	58.88"	26"	23.25"	4
	(150cm)	(66cm)	(59cm)	
8172-EF	72.44"	26"	23.25"	5
	(184cm)	(66cm)	(59cm)	
8186-EF	86"	26"	23.25"	6
	(218cm)	(66cm)	(59cm)	
	8100-EF-	E Export Seri	es	
8118-EF-E	18.20"	26"	23.25"	1
	(46cm)	(66cm)	(59cm)	
8132-EF-E	31.76"	26"	23.25"	2
	(81cm)	(66cm)	(59cm)	
8145-EF-E	45.32"	26"	23.25"	3
	(115cm)	(66cm)	(59cm)	
8159-EF-E	58.88"	26"	23.25"	4
	(150cm)	(66cm)	(59cm)	
8172-EF-E	72.44"	26"	23.25"	5
	(184cm)	(66cm)	(59cm)	
8186-EF-E	86"	26"	23.25"	6
	(218cm)	(66cm)	(59cm)	
	8100	-EFN Series		
8148-EFN	47.66"	18"	23.25"	2
	(121cm)	(46cm)	(59cm)	
8169-EFN	69.22"	18"	23.25"	3
	(176cm)	(46cm)	(59cm)	
8191-EFN	90.78"	18"	23.25"	4
	(231cm)	(46cm)	(59cm)	
	8100-EFN	-E Export Sei	ies	
8148-EFN-E	47.66"	18"	23.25"	2
	(121cm)	(46cm)	(59cm)	
8169-EFN-E	69.22"	18"	23.25"	3
	(176cm)	(46cm)	(59cm)	
8191-EFN-E	90.78"	18"	23.25"	4
	(231cm)	(46cm)	(59cm)	
	N80	000 Series		
N8018	18"	26"	10.75"	1
	(46cm)	(66cm)	(27cm)	
N8030	30.75"	26"	10.75″	2
	(78cm)	(66cm)	(27cm)	
N8043	43.5"	26"	10.75"	3
	(110cm)	(66cm)	(27cm)	
N8056	56.25"	26"	10.75"	4
	(143cm)	(66cm)	(27cm)	
N8069	69"	26"	10.75"	5
	(175cm)	(66cm)	(27cm)	
N8081	81.75"	26"	10.75"	6
140001	(208cm)	(66cm)	(27cm)	
<u> </u>	(200011)	(OOCIII)	(2, (11)	

Model	Length	Depth	Height	12x20
	Noo			Pans
		00N Series		1 -
N8046N	46.75"	18"	10.75"	2
	(119cm)	(46cm)	(27cm)	
N8068N	67.5"	18"	10.75"	3
	(171cm)	(46cm)	(27cm)	
		00-R Series		
N8044-R	40.48"	26.05"	10.77"	2
NOOFO D	(103cm)	(66cm)	(27cm)	2
N8059-R	57.22"	26.05"	10.77"	3
N0076 D	(145cm)	(66cm) 26.05"	(27cm)	1
N8076-R	73.68"		10.77"	4
NOOO4 D	(187cm) 89.89"	(66cm)	(27cm)	5
N8094-R		26.05"	10.77")
	(228cm)	(66cm)	(27cm)	
NO110D	18"	00B Series 26"	21.07//	1
N8118B			21.87"	1
NOTZOD	(46cm)	(66cm) 26"	(56cm) 21.87"	-
N8130B	30.75"			2
NO1 42D	(78cm)	(66cm)	(56cm)	
N8143B	43.5"	26"	21.87"	3
NOTECE	(110cm)	(66cm)	(56cm)	1
N8156B	56.25"	26"	21.87"	4
NO1COD	(143cm) 69"	(66cm)	(56cm)	-
N8169B		26"	21.87"	5
NO101D	(175cm)	(66cm) 26"	(56cm)	
N8181B	81.75"		21.87"	6
	(208cm)	(66cm)	(56cm)	
N8118B-E	N8100B-E Ex	26"	21.87"	1
NOTIOD-E			1	'
N8130B-E	(46cm) 30.75"	(66cm) 26"	(56cm) 21.87"	2
NO 130D-E		(66cm)		2
N8143B-E	(78cm) 43.5"	26"	(56cm) 21.87"	3
NO143D-E	(110cm)	(66cm)	(56cm)	3
	N8100B-E Ex			
N8156B-E	56.25"	26"	21.87"	4
NOTOOD-L	(143cm)	(66cm)	(56cm)	7
N8169B-E	69"	26"	21.87"	5
NOTO 3D-L	(175cm)	(66cm)	(56cm)	'
		OBR Series	(SOCITI)	
N8144-BR	40.43"	26.05"	21.81"	2
NOT IT BIX	(103cm)	(66cm)	(55cm)	_
N8159-BR	57.22"	26.05"	21.81"	3
110133 Bit	(145cm)	(66cm)	(55cm)	
N8176-BR	73.68"	26.05"	21.81"	4
NOT/O BIL	(187cm)	(66cm)	(55cm)	'
N8194-BR	89.86"	26.05"	21.81"	5
	(228cm)	(66cm)	(55cm)	
		0-FA Series	(000)	-
N8131-FA	31.25"	26.67"	26.62"	2
	(79cm)	(68cm)	(68cm)	_
N8144-FA	44"	26.67"	26.62"	3
• • •	(112cm)	(68cm)	(68cm)	
N8157-FA	56.75"	26.67"	26.62"	4
	(144cm)	(68cm)	(68cm)	'
N8169-FA	69.5"	26.67"	28.62"	5
	(177cm)	(68cm)	(73cm)	
N8182-FA	82.25"	26.67"	28.62"	6
· · ·	(209cm)	(68cm)	(73cm)	
	, (==> 5)	(===)	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	

Model	Length	Depth	Height	12x20 Pans
	N810	ONB Series	•	
N8146NB	46.75"	18"	21.81"	2
	(119cm)	(46cm)	(55cm)	
N8168NB	67.5"	18"	21.81"	3
	(171cm)	(46cm)	(55cm)	
		-E Export Ser		•
N8146NB-E	46.75"	18"	21.81"	2
	(119cm)	(46cm)	(55cm)	
N8168NB-E	67.5"	18"	21.81"	3
	(171cm)	(46cm)	(55cm)	
	N82	200 Series		•
N8231	31.75"	26"	15.75"	NA
	(81cm)	(66cm)	(40cm)	
N8245	45.63"	26"	15.75"	NA
	(116cm)	(66cm)	(40cm)	
N8259	59.5"	26"	15.75"	NA
	(151cm)	(66cm)	(40cm)	
N8273	73.38"	26"	15.75"	NA
	(186cm)	(66cm)	(40cm)	
N8287	87.25"	26"	15.75"	NA
	(222cm)	(66cm)	(40cm)	
		Export Serie		1
N8231-E	31.75"	26"	15.75"	NA
	(81cm)	(66cm)	(40cm)	
N8245-E	45.63"	26"	15.75"	NA
1102 13 E	(116cm)	(66cm)	(40cm)	1 1 1 1
N8259-E	59.5"	26"	15.75"	NA
110237 2	(151cm)	(66cm)	(40cm)	1 1 1 1
N8273-E	73.38"	26"	15.75"	NA
110273 2	(186cm)	(66cm)	(40cm)	1 1 1 1
N8287-E	87.25"	26"	15.75"	NA
110207 E	(222cm)	(66cm)	(40cm)	1 1 1 1
	<u> </u>	00G Series	(locill)	
N8231G	31.75"	25.87"	19"	NA
1102510	(81cm)	(66cm)	(48cm)	1 1 1 1
N8245G	45.63"	25.87"	19"	NA
1102430	(116cm)	(66cm)	(48cm)	14/1
N8259G	59.5"	25.87"	19"	NA
1102370	(151cm)	(66cm)	(48cm)	14/1
N8273G	73.38"	25.87"	19"	NA
102/30	(186cm)	(66cm)	(48cm)	INA
		E Export Seri		
N8231G-E	31.75"	25.87"	19"	NA
INO23TG-L				INA
N8245G-E	(81cm) 45.63"	(66cm) 25.87"	(48cm) 19"	NA
INOZ43G-E		25.87 (66cm)		INA
N8259G-E	(116cm) 59.5"	25.87"	(48cm) 19"	NA
N8239G-E	57.5			INA
	(151cm)	(66cm)	(48cm)	1
N8230-ST	29.60"	0-ST Series 22"	15.70"	NA
No∠3U-31				INA
NO240 CT	(75cm) 39.70"	(56cm) 29.60"	(40cm)	NIA
N8240-ST			15.70"	NA
NOSEC CT	(101cm)	(75cm)	(40cm)	NIA
N8256-ST	55.60"	22"	15.70"	NA
NO250 CT	(141cm)	(56cm)	(40cm)	NI A
N8258-ST	57.60"	29.60"	15.70"	NA
N00== 0=	(146cm)	(75cm)	(40cm)	
N8275-ST	75.50"	29.60"	15.70"	NA
	(192cm)	(75cm)	(40cm)	

Model	Length	Depth	Height	12x20 Pans
	N86	00 Series		rans
N8630	30.75"	26"	23.75"	2
	(78cm)	(66cm)	(60cm)	
N8643	43.5"	26"	23.75"	3
	(110cm)	(66cm)	(60cm)	
N8656	56.25"	26"	23.75"	4
	(143cm)	(66cm)	(60cm)	
N8669	69"	26"	23.75"	5
	(175cm)	(66cm)	(60cm)	
N8681	81.75"	26"	23.75"	6
	(208cm)	(66cm)	(60cm)	
		00D Series		,
N8717-D	17.88"	26"	9.5″	1
	(45cm)	(66cm)	(24cm)*	
N8731-D	31.75"	26"	9.5"	2
	(81cm)	(66cm)	(24cm)*	
N8745-D	45.63"	26"	9.5"	3
	(116cm)	(66cm)	(24cm)*	
N8759-D	59.5"	26"	9.5"	4
	(151cm)	(66cm)	(24cm)*	
N8773-D	73.38"	26"	9.5"	5
	(186cm)	(66cm)	(24cm)*	
N8787-D	87.25"	26"	9.5"	6
	(222cm)	(66cm)	(24cm)*	
*14" O	verall height i			
		E Export Seri		
N8717-D-E	17.88"	26"	9.5"	1
	(45cm)	(66cm)	(24cm)*	
N8731-D-E	31.75"	26"	9.5"	2
N0745 D 5	(81cm)	(66cm)	(24cm)*	_
N8745-D-E	45.63"	26"	9.5"	3
Nozeo D.E.	(116cm)	(66cm)	(24cm)*	-
N8759-D-E	59.5"	26"	9.5"	4
N0772 D F	(151cm)	(66cm)	(24cm)*	
N8773-D-E	73.38"	26"	9.5"	5
N0707 D F	(186cm)	(66cm)	(24cm)*	
N8787-D-E	87.25"	26"	9.5"	6
14"	(222cm)	(66cm)	(24cm)	
^14" U	verall height i	ncluaing arai DESP Series	n connection	
N8717-DESP	17.89"	26"	9.5"	1
NO/1/-DE3P				'
N8731-DESP	(45cm) 31.76"	(66cm) 26"	(24cm)* 9.5"	2
NO/31-DESF				
N8745-DESP	(81cm) 45.63"	(66cm) 26"	(24cm)* 9.5"	3
NO/43-DESF				3
N8759-DESP	(116cm) 59.50"	(66cm) 26"	(24cm)* 9.5"	4
140/35-DE3P	39.30 (151cm)	(66cm)		4
N8773-DESP	73.37"	26"	(24cm)* 9.5"	5
140//3-DE3F	(186cm)	(66cm)		
			(24cm)* 9.5"	_
N8787-DECD	Q7 7 <i>/</i> /″			
N8787-DESP	87.24" (222cm)	26" (66cm)	9.5 (24cm)*	6

Model	Length	Depth	Height	12x20
				Pans
		P-E Export S		
N8717-D-ESP-E	17.89"	26"	9.5"	1
	(45cm)	(66cm)	(24cm)*	
N8731-D-ESP-E	31.76"	26"	9.5"	2
	(81cm)	(66cm)	(24cm)*	
N8745-D-ESP-E	45.63"	26"	9.5"	3
	(116cm)	(66cm)	(24cm)*	
N8759-D-ESP-E	59.50"	26"	9.5"	4
	(151cm)	(66cm)	(24cm)*	
N8773-D-ESP-E	73.37"	26"	9.5"	5
	(186cm)	(66cm)	(24cm)*	
N8787-D-ESP-E	87.24"	26"	9.5"	6
	(222cm)	(66cm)	(24cm)*	
*14" O	verall height i	ncluding drai		
		00N Series		
N8746ND	45.61"	15.87"	9.5"	2
	(116cm)	(40cm)	(24cm)*	
N8768N	67.48"	15.87"	9.5″	3
	(172cm)	(40cm)	(24cm)*	
N8768ND	67.48"	15.87"	9.5"	3
1107 00112	(172cm)	(40cm)	(24cm)*	
	_ ,	00-R Series	(Z ICIII)	
N8744-R	40.48"	26.05"	9.5"	2
1107 44 11	(103cm)	(66cm)	(24cm)*	
N8759-R	57.22"	26.05"	9.5"	3
140759-11	(145cm)	(66cm)	(24cm)*	
N8776-R	73.68"	26"	9.5"	4
1NO770-N				4
N8794-R	(187cm) 89.80"	(66cm) 25.91"	(24cm)* 9.5"	5
100/94-N				ر
1 4" ((228cm) verall height i	(66cm)	(24cm)	
14 0			ii connection	
NOO21		300 Series	11"	1
N8831	31.75"	26"		2
NOOAE	(81cm)	(66cm) 26"	(28cm) 11"	2
N8845	45.63"			3
NOOTO	(116cm) 59.5"	(66cm)	(28cm) 11"	4
N8859	57.5	26"		4
110070	(151cm)	(66cm)	(28cm)	_
N8873	73.38"	26"	11"	5
Nona	(186cm)	(66cm)	(28cm)	
N8887	87.25"	26"	11"	6
	(222cm)	(66cm)	(28cm)	
		Export Serie		
N8831-E	31.75"	26"	11"	2
N0045 5	(81cm)	(66cm)	(28cm)	
N8845-E	45.63"	26"	11"	3
	(116cm)	(66cm)	(28cm)	
N8859-E	59.5"	26"	11"	4
	(151cm)	(66cm)	(289cm)	
N8873-E	73.38"	26"	11"	5
	(186cm)	(66cm)	(289cm)	
N8887-E	87.25"	26″	11"	6
	(222cm)	(66cm)	(28cm)	

Clearance Requirements

A DANGER

Minimum clearance requirements are the same for noncombustible locations as for combustible locations. The flooring under the appliance must be made of a noncombustible material.

A DANGER

Risk of fire/shock. All minimum clearances must be maintained. Do not obstruct vents or openings.

Heated & Combination Hot/Cold Food Wells Bottom & Side Clearance
3" (76mm)
Cooled Pans, Frost Tops & Granite Cold Slabs Clearance
0" (0cm)

Keep the vents clean and free of obstruction.

Cutout Installation Dimensions

Model	Counter Cutout	Control Panel Cutout
	Dimensions	Dimensions
	8100-EF Ser	ries
8118-EF	17" x 25"	NA
	(43cm x 64cm) 30.75" x 25"	
8132-EF	30.75" x 25"	NA
	(78cm x 64cm)	
8145-EF	44.25" x 25"	NA
	(112cm x 64cm)	
8159-EF	57.87" x 25"	NA
	(147cm x 64cm)	
8172-EF	71.5" x 25"	NA
	(182cm x 64cm)	
8186-EF	85" x 25"	NA
	(216cm x 64cm)	
	8100-EF-E Expor	
8118-EF-E	17" x 25"	NA
	(43cm x 64cm)	
8132-EF-E	30.75" x 25"	NA
	(78cm x 64cm)	
8145-EF-E	44.25" x 25"	NA
	(112cm x 64cm)	
8159-EF-E	57.87" x 25"	NA
0470 55 5	(147cm x 64cm)	A1.6
8172-EF-E	71.5" x 25"	NA
0106 FF F	(182cm x 64cm)	NIA.
8186-EF-E	85" x 25"	NA
	(216cm x 64cm) 8100-EFN Se	
8148-EFN	46.88" x 17.25"	NA NA
8148-EFIN		INA
8169-EFN	(119cm x 44cm) 68.5" x 17.25"	NA
0109-EFIN		INA
8191-EFN	(174cm x 44cm) 90" x 17.25"	NA
O191-LIIN		NA.
	(229cm x 44cm) 8100-EFN-E Expo	rt Sprips
8148-EFN-E	46.88" x 17.25"	NA
OTTO LITTE	(119cm x 44cm)	1471
8169-EFN-E	68.5" x 17.25"	NA
OTOS ETTE	(174cm x 44cm)	1471
8191-EFN-E	90" x 17.25"	NA
OIDI LINE	(229cm x 44cm)	1471
	N8000 Seri	
N8018	17" x 25"	NA
	(43cm x 64cm)	, i a
N8030	29.75" x 25"	NA
	(76cm x 64cm)	N I A
N8043	42.5" x 25"	NA
	(108cm x 64cm)	B I A
N8056	55.25" x 25"	NA
	(140cm x 64cm)	B I A
N8069	68" x 25"	NA
	(173cm x 64cm)	N I A
N8081	80.75" x 25"	NA
	(205cm x 64cm)	

Model	Counter Cutout	Control Panel Cutout
	Dimensions	Dimensions .
	N8000N Sei	r
N8046N	45.75" x 17"	NA
	(116cm x 43cm)	
N8068N	66.50" x 17"	NA
	(169cm x 43cm)	
	N8000-R Se	
N8044-R	See drawing on	NA
NOOFOR	page 16	
N8059-R	See drawing on	NA
NOOZC D	page 16	N.A.
N8076-R	See drawing on	NA
Nacata	page 16	
N8094-R	See drawing on	NA
	page 16	•
NO110D	N8100B Sei	T .
N8118B	17" X 25"	NA
N8130B	(43cm x 64cm) 29.75" x 25"	NA
N8130B	I	INA INA
NO142D	(76cm x 64cm) 42.50" X 25"	NIA
N8143B		NA
N8156B	(108cm x 64cm) 55.25" x 25"	NA
INSTOOD		INA INA
N8169B	(140cm x 64cm) 68" X 25"	NA
NOTOSD	00 X 23	INA INA
N8181B	(173cm x 64cm) 80.75" x 25"	NA
NOTOTO	(205cm x 64cm)	INA
	N8100B-E Export Se	 ries - R 404Δ
N8118B-E	17" X 25"	NA
NOTTOD-L	(43cm x 64cm)	ING.
N8130B-E	29.75" x 25"	NA
NO130D-L	(76cm x 64cm)	INA.
N8143B-E	42.50" X 25"	NA
1101 130 E	(108cm x 64cm)	177
	N8100B-E Export Se	ries - R134A
N8156B-E	55.25" x 25"	NA NA
	(140cm x 64cm)	
N8169B-E	68" X 25"	NA
	(173cm x 64cm)	
	N8100-FA Se	eries
N8144-BR	See drawing on	NA
	page 16	
N8159-BR	See drawing on	NA
	page 16	
N8176-BR	See drawing on	NA
	page 16	
N8194-BR	See drawing on	NA
	page 16	

Model	Counter Cutout	Control Panel Cutout
Model	Dimensions	Dimensions
	N8100BR Se	
N8131-FA	30.25" x 25.5"	NA NA
NOISITA		INA.
N8144-FA	(77cm x 65cm) 43" x 25.5"	NA
110144-FA		INA
NO1EZ EA	109cm x 65cm) 55.75" x 25.5"	NA
N8157-FA		INA INA
NO160 FA	(142cm x 65cm) 68.5" x 25.5"	NA
N8169-FA		INA INA
NO102 FA	174cm x 65cm) 81.25" x 25.5"	NA
N8182-FA		INA INA
	(206cm x 65cm)	
NO146ND	N8100NB Se	
N8146NB		NA
NO1COND	(116cm x 43cm) 66.5" x 17"	NIA.
N8168NB		NA
	(169cm x 43cm)	L
NO14CND F	N8100NB-E Expo	
N8146NB-E	45.75" x 17"	NA NA
	(116cm x 43cm)	
N8168NB-E	66.5" x 17"	NA
	(169cm x 43cm)	
	N8200 Ser	Í
N8231	30.75" x 25"	NA NA
	(78cm x 64cm)	
N8245	44.63" x 25"	NA NA
	(113cm x 64cm)	
N8259	58.50" x 25"	NA
	(149cm x 64cm)	
N8273	72.38" x 25"	NA NA
	(184cm x 64cm)	
N8287	86.25" x 25"	NA NA
	(219cm x 64cm)	
	N8200-E Expor	
N8231-E	30.75" x 25"	NA
	(78cm x 64cm)	
N8245-E	44.63" x 25"	NA
	(113cm x 64cm)	
N8259-E	58.50" x 25"	NA
	(149cm x 64cm)	
N8273-E	72.38" x 25"	NA NA
	(184cm x 64cm)	
N8287-E	86.25" x 25"	NA
	(219cm x 64cm)	
	N8200G Se	i -
N8231G	30.75" X 25"	NA NA
	(78cm x 64cm)	
N8245G	44.63" x 25"	NA NA
	(113cm x 64cm)	
N8259G	58.5" x 25"	NA
	(149cm x 64cm)	
N8273G	72.38" x 25"	NA
	(184cm x 64cm)	

Model	Counter Cutout Control Panel Cutou	
	Dimensions	Dimensions
	N8200G-E Expo	rt Series
N8231G-E	30.75" X 25"	NA
	(78cm x 64cm)	
N8245G-E	44.63" x 25"	NA
	(113cm x 64cm)	
N8259G-E	58.5" x 25"	NA
	(149cm x 64cm)	
	N8200-ST Se	
N8230-ST	28.60" x 21.10"	NA
NOO 10 CT	(73cm x 54cm)	
N8240-ST	38.65" x 28.75"	NA
NO256 CT	(98cm x 73cm)	NIA .
N8256-ST	54.60" x 21.10" (139cm x 54cm)	NA
N8258-ST	56.60" x 28.75"	NA NA
10230-31	(144cm x 73cm)	INA
N8275-ST	74.50" x 28.75"	NA
140273-31	(189cm x 73cm)	INA
	N8600 Seri	ios
N8630	29.75" X 25"	12.25" x 4.25" x 7"
	(76cm x 64cm)	(31cm x 11cm x 18cm)
N8643	42.50" x 25"	12.25" x 4.25" x 7"
	(108cm x 64cm)	(31cm x 11cm x 18cm)
N8656	55.25" x 25"	12.25" x 4.25" x 7"
	(140cm x 64cm)	(31cm x 11cm x 18cm)
N8669	68" x 25"	12.25" x 4.25" x 7"
	(173cm x 64cm)	(31cm x 11cm x 18cm)
N8681	80.75" x 25"	12.25" x 4.25" x 7"
	(205cm x 64cm)	(31cm x 11cm x 18cm)
	N8700D Se	ries
N8717-D	16.88" X 25"	7" x 4.62" x 7"
	(43cm x 64cm)	(18cm x 12cm x 18cm)
N8731-D	30.75" x 25"	10.31" x 4.62" x 7"
NOZ4E D	(78cm x 64cm) 44.62" x 25"	(26cm x 12cm x 18cm) 14.5" x 4.62" x 7"
N8745-D		
N8759-D	(113cm x 64cm) 58.5" x 25"	(37cm x 12cm x 18cm) 18.69" x 4.62" x 7"
NO/39-D		(47cm x 12cm x 18cm)
N8773-D	(149cm x 64cm) 72.37" x 25"	22.88" x 4.62" x 7"
110773-0	(184cm x 64cm)	(58cm x 12cm x 18cm)
N8787-D	86.25" x 25"	27" x 4.62" x 7"
110707 5	(219cm x 64cm)	(69cm x 12cm x 18cm)
	N8700D-E Expo	
N8717-D-E	16.88" X 25"	7" x 4.62" x 7"
	(43cm x 64cm)	(18cm x 12cm x 18cm)
N8731-D-E	30.75" x 25"	10.31" x 4.62" x 7"
	(78cm x 64cm)	(26cm x 12cm x 18cm)
N8745-D-E	44.62" x 25"	14.5" x 4.62" x 7"
	(113cm x 64cm)	(37cm x 12cm x 18cm)
N8759-D-E	58.5" x 25"	18.69" x 4.62" x 7"
	(149cm x 64cm)	(47cm x 12cm x 18cm)
N8773-D-E	72.37" x 25"	22.88" x 4.62" x 7"
	(184cm x 64cm)	(58cm x 12cm x 18cm)
N8787-D-E	86.25" x 25"	27" x 4.62" x 7"
	(219cm x 64cm)	(69cm x 12cm x 18cm)

Model Counter Cutout Control Panel Cuto		
Model	Dimensions	Dimensions
	N8700DESP S	
N8717-DESP	16.87" X 25"	5" x 6.88" x 7.50"
110717 2201		
N8731-DESP	(43cm x 64cm) 30.75" x 25"	(13cm x 17cm x 19cm) 5" x 11.88" x 7.50"
1.070.020.	(78cm x 64cm)	(13cm x 30cm x 19cm)
N8745-DESP	44.62" x 25"	5" x 17.38" x 7.50"
	(113cm x 64cm)	(13cm x 44cm x 19cm)
N8759-DESP	58.50" x 25"	5" x 22.88" x 7.50"
110737 2231	(149cm x 64cm)	(13cm x 58cm x 19cm)
N8773-DESP	72.37" x 25"	5" x 28.38" x 7.50"
110773 2231	(184cm x 64cm)	(13cm x 72cm x 19cm)
N8787-DESP	86.25" x 25"	5" x 33.88"x 7.50"
110707 2231	(219cm x 64cm)	(13cm x 86cm x 19cm)
	N8700-D-ESP-E Exp	
N8717-D-ESP-E	16.87" X 25"	5" x 6.88" x 7.50"
		(13cm x 17cm x 19cm)
N8731-D-ESP-E	(43cm x 64cm) 30.75" x 25"	5" x 11.88" x 7.50"
		(13cm x 30cm x 19cm)
N8745-D-ESP-E	(78cm x 64cm) 44.62" x 25"	5" x 17.38" x 7.50"
	(113cm x 64cm)	(13cm x 44cm x 19cm)
N8759-D-ESP-E	58.50" x 25"	5" x 22.88" x 7.50"
110737 5 231 2		(13cm x 58cm x 19cm)
N8773-D-ESP-E	(149cm x 64cm) 72.37" x 25"	5" x 28.38" x 7.50"
110773 2 231 2		
N8787-D-ESP-E	(184cm x 64cm) 86.25" x 25"	(13cm x 72cm x 19cm) 5" x 33.88"x 7.50"
	(219cm x 64cm)	(13cm x 86cm x 19cm)
	N8700N Sei	ries
N8746ND	44.62" x 15.0"	10.31" x 4.62" x 7"
	(113cm x 38cm)	(26cm x 12cm x 18cm)
N8768N	66.50" x 15.0"	14.50" x 4.62" x 7"
	(169cm x 38cm)	(37cm x 12cm x 18cm)
N8768ND	66.50" x 15.0"	14.50" x 4.62" x 7"
	(169cm x 38cm)	(37cm x 12cm x 18cm)
ļ	N8700-R Se	
N8744-R	See drawing on	10.31" x 4.62" x 7"
	page 16	(26cm x 12cm x 18cm)
N8759-R	See drawing on	14.5" x 4.62" x 7"
NO776 D	page 16	(37cm x 12cm x 18cm)
N8776-R	See drawing on	18.69" x 4.62" x 7"
NOZO4 D	page 16	(47cm x 12cm x 18cm) 22.88" x 4.62" x 7"
N8794-R	See drawing on page 16	(58cm x 12cm x 18cm)
	N8800 Seri	
N8831	30.75" X 25"	12.25" x 4.25" x 7"
110051	(78cm x 64cm)	(31cm x 11cm x 18cm)
N8845	44.63" x 25"	12.25" x 4.25" x 7"
	(113cm x 64cm)	(31cm x 11cm x 18cm)
N8859	58.5" x 25"	12.25" x 4.25" x 7"
	(149cm x 64cm)	(31cm x 11cm x 18cm)
N8873	72.38" x 25"	12.25" x 4.25" x 7"
	(184cm x 64cm)	(31cm x 11cm x 18cm)
N8887	86.25" x 25"	12.25" x 4.25" x 7"
	(219cm x 64cm)	(31cm x 11cm x 18cm)

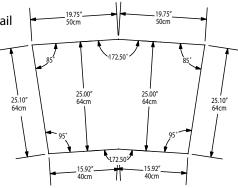
Model	Counter Cutout	Control Panel Cutout
	Dimensions	Dimensions
	N8800-E Expor	t Series
N8831-E	30.75" X 25"	12.25" x 4.25" x 7"
	(78cm x 64cm)	(31cm x 11cm x 18cm)
N8845-E	44.63" x 25"	12.25" x 4.25" x 7"
	(113cm x 64cm)	(31cm x 11cm x 18cm)
N8859-E	58.5" x 25"	12.25" x 4.25" x 7"
	(149cm x 64cm)	(31cm x 11cm x 18cm)
N8873-E	72.38" x 25"	12.25" x 4.25" x 7"
	(184cm x 64cm)	(31cm x 11cm x 18cm)
N8887-E	86.25" x 25"	12.25" x 4.25" x 7"
	(219cm x 64cm)	(31cm x 11cm x 18cm)

Installation

CURVED DROP-IN CUTOUT DETAILS

2 pan standard curved drop-in cutout detail for models:

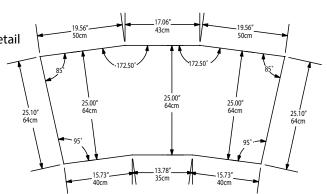
- N8044-R
- N8144-BR
- N8744-R



Section 2

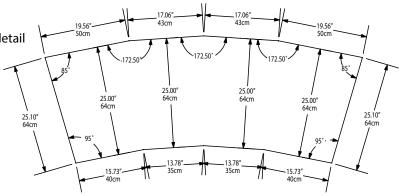
3 pan standard curved drop-in cutout detail for models:

- N8059-R
- N8159-BR
- N8759-R



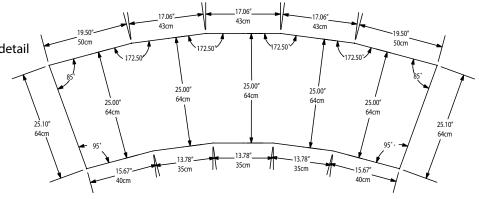
4 pan standard curved drop-in cutout detail for models:

- N8076-R
- N8176-BR
- N8776-R



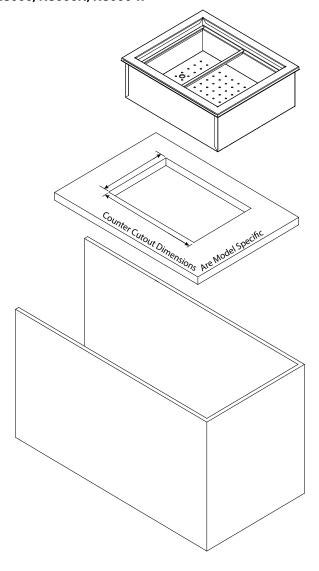
5 pan standard curved drop-in cutout detail or models:

- N8094-R
- N8194-BR
- N8794-R



Drop-In Counter Installation

ICE COOLED DROP-IN UNITS N8000, N8000N, N8000-R



- Place the ice cooled drop-in unit through the counter cutout.
- 2. A gasket is installed in the flange of each unit. The weight of the unit on the gasket forms a seal preventing liquids from seeping into the cut-out opening.
- 3. The 1" diameter drain on N8000, N8000N, N8000-R models is shipped loose and must be connected during installation.
 - A. Provided 1" (25mm) drain, nut and washer must be field installed to an appropriate container or floor drain following local code requirements. Sinks come standard with 1-1/2" basket strainer assemblies.



B. Remove/drill foam out of drain hole.





- C. Apply thin ring of plumbers putty around the
- D. From the inside drop the drain into the drain hole.

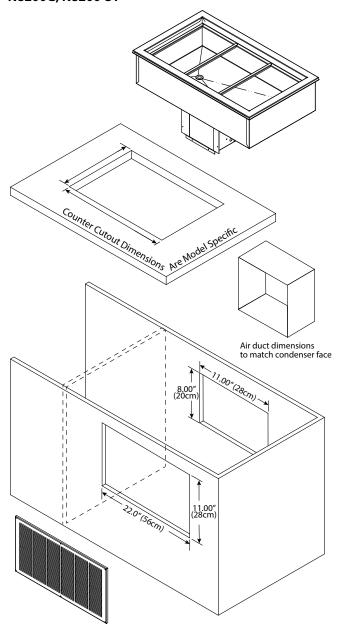


E. From the outside secure the drain with the washer and nut.

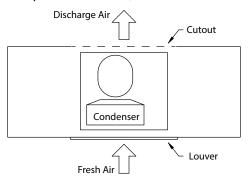


- F. Tighten the nut with channel locks, use a fork to hold the drain in place if necessary.
- G. Clean up excess plumbers putty.

SELF-CONTAINED REFRIGERATED DROP-IN UNITS 8100-EF(N), N8100B, N8100-BR, N8100NB, N8200, N8200G, N8200-ST



- Install partitions between self-contained refrigerated drop-in units and other electrical appliances if they are located in the same cabinet. Partitions must fully extend front to back and top to bottom.
- Install a GFCI receptacle a minimum of 14" (36cm) up from the cabinet bottom inside the partitions. Run the outlet to a switch. With limited access to the control, a switch will make it easy to turn the unit off for defrost.
- 3. The unit requires airflow to the compressor. One louver is provided with each unit.
 - NOTE: Any restriction to the proper air flow will void the compressor warranty.
 - A 13" x 25" (33 cm x 64 cm) louver is provided by Delfield and must be installed in the counter in front of the condenser. The louver cutout dimension is 22" x 11" (56 cm x 28 cm).
 - The rear must have an opening for removal of heated air. The opening must be at least 11" x 8", a total of 88 square inches (28cm x 20cm, a total of 566 square centimeters).



- 4. Place the condensing unit through the counter cutout.
- 5. A gasket is installed in the flange of each unit. The weight of the unit on the gasket forms a seal preventing liquids from seeping into the cut-out opening.
- 6. Plumb to a floor drain.
 - 8100-EF(N) models have a 1/2" ID PVC drain.
 - N8200 and N8200-ST models have a 1/2" OD stainless steel drain. Use clear flexible tubing.
 - N8200G models have a 3/4" drain located on end/center. Use a 3/4" female coupling.

- 7. The 1" diameter drain on N8100B, N8100-BR and N8100NB models is shipped loose and must be connected during installation.
 - A. Provided 1" (25mm) drain, nut and washer must be field installed to an appropriate container or floor drain following local code requirements. Sinks come standard with 1-1/2" basket strainer assemblies.



B. Remove/drill foam out of drain hole.





- C. Apply thin ring of plumbers putty around the drain.
- D. From the inside drop the drain into the drain hole.

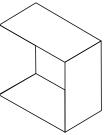


E. From the outside secure the drain with the washer and nut.



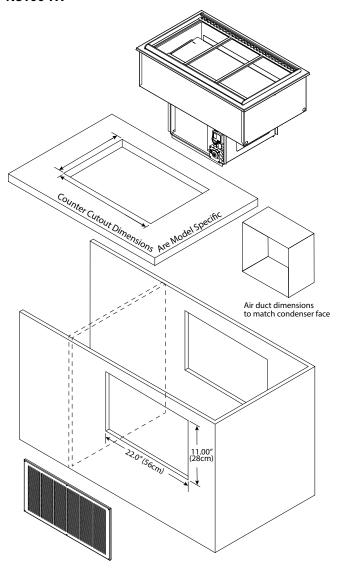
- F. Tighten the nut with channel locks, use a fork to hold the drain in place if necessary.
- G. Clean up excess plumbers putty.

8. Construct an air duct (not provided) connecting the condenser face to the louver. This will prevent recirculation of discharge air.

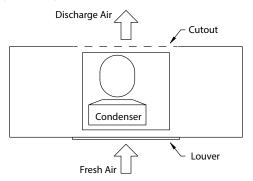


Air duct dimensions to match condenser face

FORCED-AIR REFRIGERATED DROP-IN UNITS N8100-FA



- Install partitions between self-contained refrigerated drop-in units and other electrical appliances if they are located in the same cabinet. Partitions must fully extend front to back and top to bottom.
- Install a GFCI receptacle a minimum of 14" (36cm) up from the cabinet bottom inside the partitions. Run the outlet to a switch. With limited access to the control, a switch will make it easy to turn the unit off for defrost.
- 3. The unit requires airflow to the compressor. One louver is provided with each unit.
 - NOTE: Any restriction to the proper air flow will void the compressor warranty.
 - A 13" x 25" (33 cm x 64 cm) louver is provided by Delfield and must be installed in the counter in front of the condenser. The louver cutout dimension is 22" x 11" (56 cm x 28 cm).
 - The rear must have an opening for removal of heated air. The opening must be at least 174in² (1123cm²).



- 4. Place the condensing unit through the counter cutout.
- A gasket is installed in the flange of each unit.
 The weight of the unit on the gasket forms a seal preventing liquids from seeping into the cut-out opening.

 The 1" diameter drain on N8100-FA models is shipped loose and must be connected during installation. N8157-FA, N8169-FA and N8182-FA have two 1" drains.

A. Provided 1" (25mm) drain, nut and washer must be field installed to an appropriate container or floor drain following local code requirements. Sinks come standard with 1-1/2" basket strainer assemblies.



B. Remove/drill foam out of drain hole.





- Apply thin ring of plumbers putty around the drain.
- D. From the inside drop the drain into the drain hole.

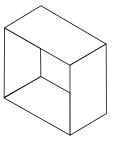


E. From the outside secure the drain with the washer and nut.

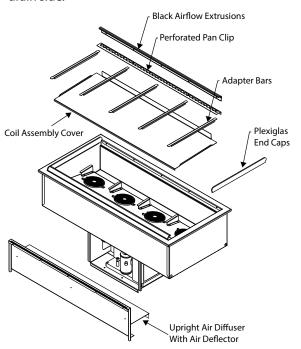


- F. Tighten the nut with channel locks, use a fork to hold the drain in place if necessary.
- G. Clean up excess plumbers putty.

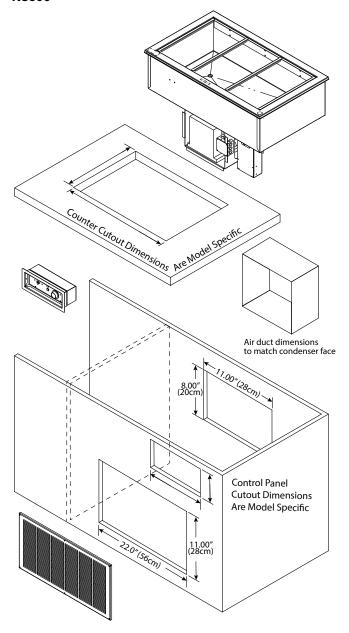
7. Construct an air duct (not provided) connecting the condenser face to the louver. This will prevent recirculation of discharge air.



- 8. Inside the well, the fan assembly has standoff brackets with tabs. The tabs should be bent up.
- 9. Place the coil assembly cover slots over the bracket tabs. This will secure the cover is in the correct location and will not disrupt the air flow.
- 10. The upright air diffuser will only fit one way on the drain side.



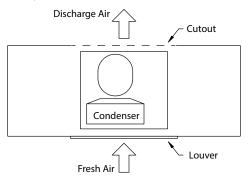
SELF-CONTAINED COMBO HOT/COLD DROP-IN UNITS N8600



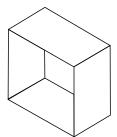
- Install partitions between self-contained refrigerated drop-in units and other electrical appliances if they are located in the same cabinet. Partitions must fully extend front to back and top to bottom.
- 2. Install a GFCI receptacle a minimum of 14" (36cm) up from the cabinet bottom inside the partitions.
- The unit requires airflow to the compressor. One louver is provided with each unit.

NOTE: Any restriction to the proper air flow will void the compressor warranty.

- A 13" x 25" (33 cm x 64 cm) louver is provided by Delfield and must be installed in the counter in front of the condenser. The louver cutout dimension is 22" x 11" (56 cm x 28 cm).
- The rear must have an opening for removal of heated air. The opening must be at least 11" x 8", a total of 88 square inches (28cm x 20cm, a total of 566 square centimeters).

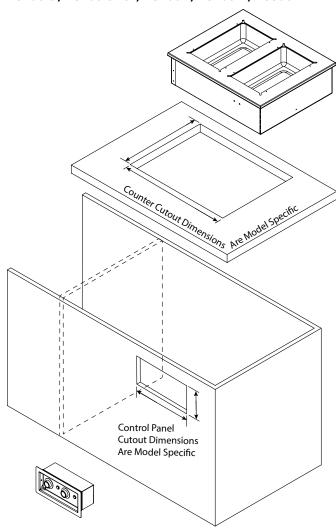


- 4. Orient the control panel with the indicator light for each control to the right of the control. N8600 series units have 40" (102cm) of conduit.
- Place the control panel into the cutout from inside the cabinet. Place the collar into the cutout from outside the cabinet. Secure with two screws.
- 6. Place the condensing unit through the counter cutout.
- A gasket is installed in the flange of each unit.
 The weight of the unit on the gasket forms a seal preventing liquids from seeping into the cut-out opening.
- 8. N8600 wells are sloped to a 1" (25mm) male NPT stainless steel drain. Plumb to a floor drain. Use a 1" female coupling.
- 9. Construct an air duct (not provided) connecting the condenser face to the louver. This will prevent recirculation of discharge air.



Air duct dimensions to match condenser face

HOT FOOD WELL DROP-IN UNITS N8700-D, N8700-DESP, N8700N, N8700-R, N8800



- 1. Orient the control panel with the indicator light for each control to the right of the control.
 - N8700 series units have 48" (122cm) of conduit.
 - N8800 Series units have 34" (86cm) of conduit.
- 2. N8700 control panel is designed to be installed on the side opposite the drains.
 - Installed on the same side as the drains, the control panel will either be upside down or the knobs will control the opposite wells.



Infinite control shown, directions also apply to digital control

- 3. Place the control panel into the cutout from inside the cabinet. Place the collar into the cutout from outside the cabinet. Secure with two screws.
- 4. Place the hot food well drop-in unit through the counter cutout.
- A gasket is installed in the flange of each unit.
 The weight of the unit on the gasket forms a seal preventing liquids from seeping into the cut-out opening.
- 6. Plumb to a floor drain.
 - All N8700 series are equipped with 1/2" (13mm) female NPT drains, one per well located right rear corner, manifold to 1/2" (13mm) gate valve.
 - N8800 wells are sloped to a 1" (25mm) male NPT stainless steel drain. Use a 1" female coupling.

Electrical Service

A DANGER

Check all wiring connections, including factory terminals, before operation. Connections can become loose during shipment and installation.

A Warning

This appliance must be grounded and all field wiring must conform to all applicable local and national codes. Refer to rating plate for proper voltage. It is the responsibility of the end user to provide the disconnect means to satisfy the authority having jurisdiction.

VOLTAGE

All electrical work, including wire routing and grounding, must conform to local, state and national electrical codes.

The following precautions must be observed:

- The equipment must be grounded.
- A separate fuse/circuit breaker must be provided for each unit.
- A qualified electrician must determine proper wire size dependent upon location, materials used and length of run (minimum circuit ampacity can be used to help select the wire size).
- The maximum allowable voltage variation is ±10% of the rated voltage at equipment start-up (when the electrical load is highest).
- Check all green ground screws, cables and wire connections to verify they are tight before start-up.

GROUND FAULT CIRCUIT INTERRUPTER

Ground Fault Circuit Interrupter (GFCI/GFI) protection is a system that shuts down the electric circuit (opens it) when it senses an unexpected loss of power, presumably to ground. Manitowoc does not recommend the use of GFCI/GFI circuit protection to energize our equipment. If code requires the use of a GFCI/GFI then you must follow the local code. The circuit must be dedicated, sized properly and there must be a panel GFCI/GFI breaker. We do not recommend the use of GFCI/GFI outlets to energize our equipment as they are known for more intermittent nuisance trips than panel breakers.

RATED AMPERAGES, HORSEPOWER, VOLTAGE & POWER CORD CHART

Units with plugs are supplied with approximately 6ft (183cm) cords.

Model V, Hz, Ph Amps H.P. Plug				
		H.P.	Plug	
1			I	
		†	NEMA 5-15P	
		 	NEMA 5-15P	
		t	NEMA 5-15P	
			NEMA 5-15P	
		i —	NEMA 5-15P	
			NEMA 5-15P	
8100-EF-E	Export Series		I	
1				
-	2 F Among /		Varios Dar	
230-240, 50, 1		1/4	Varies Per	
-	600 watts		Destination	
-				
9100 5	EN Carios	<u> </u>		
8100-6	riv Series			
115 60 1	7.5	1/4	NEMA 5-15P	
113,00,1	7.5	1/4	INCINIA 3-13F	
8100-FFN-F	Evnort Serie	<u> </u>		
J.00 E. N-E		Ĭ		
230-240 50 1	•	1/4	Varies Per	
230 2 10, 30, 1	600 Watts	'' '	Destination	
N8000 S	Series - NA		I	
N8000-R	Series - NA			
N8100	OB Series			
115, 60, 1	3.7	1/5	NEMA 5-15P	
115, 60, 1	3.7	1/5	NEMA 5-15P	
115, 60, 1	3.7	1/5	NEMA 5-15P	
115, 60, 1	5.6	1/4	NEMA 5-15P	
115, 60, 1	5.6	1/4	NEMA 5-15P	
115, 60, 1	7.3	1/3	NEMA 5-15P	
N8100B-E Exp	ort Series - R4	04A		
_	15 Amps /		Varies Per	
230-240, 50, 1	•	1/5	Destination	
			Destination	
N8100B-E Exp	ort Series - R1	34A	I	
220 240 50 1	2.5 Amps /	1/4	Varies Per	
230-240, 30, 1	600 Watts	1/4	Destination	
N8100	BR Series			
115, 60, 1	4.0	1/5	NEMA 5-15P	
115, 60, 1	7.0	1/4	NEMA 5-15P	
	7.3	1/3	NEMA 5-15P	
115, 60, 1	8.0	1/3	NEMA 5-15P	
N8194-BR 115, 60, 1 8.0 1/3 NEMA 5-15P N8100-FA Series				
115, 60, 1	7.8	1/4	NEMA 5-15P	
115, 60, 1	9.2	1/2	NEMA 5-15P	
115, 60, 1	9.2	1/2	NEMA 5-15P	
115, 60, 1	14.8	3/4	NEMA 5-20P	
115, 60, 1	14.8	3/4	NEMA 5-20P	
	NB Series			
115, 60, 1	3.7	1/5	NEMA 5-15P	
115, 60, 1	5.6	1/4	NEMA 5-15P	
	115, 60, 1 115, 60, 1	8100-EF Series 115, 60, 1 7.5 115, 60, 1 7.5 115, 60, 1 7.5 115, 60, 1 7.5 115, 60, 1 8 8100-EF-E Export Series 230-240, 50, 1 2.5 Amps / 600 Watts 8100-EFN-E Export Series 230-240, 50, 1 2.5 Amps / 600 Watts N8000-EFN-E Export Series - NA N8000 Series - NA N8000 Series - NA N8000 Series - NA N8000 Series - NA N8100B Series 115, 60, 1 3.7 115, 60, 1 3.7 115, 60, 1 3.7 115, 60, 1 3.7 115, 60, 1 3.7 115, 60, 1 5.6 115, 60, 1 7.3 N8100B-E Export Series - R4 230-240, 50, 1 1.5 Amps / 360 Watts N8100B-E Export Series - R1 2.5 Amps / 600 Watts N8100B-E Export Series - R1 2.5 Amps / 600 Watts N8100B-E Export Series - R1 2.5 Amps / 600 Watts N8100B-E Export Series - R1 2.5 Amps / 600 Watts N8100B-E E	115, 60, 1 7.5 1/4 115, 60, 1 7.5 1/4 115, 60, 1 7.5 1/4 115, 60, 1 7.5 1/4 115, 60, 1 7.5 1/4 115, 60, 1 7.5 1/4 115, 60, 1 8 1/3 8100-EF-E Export Series	

Model	V, Hz, Ph	Amps	H.P.	Plug	
	N8100NB-E	Export Series	5		
N8146NB-E		1.5 Amps /		Varies Per	
N8168NB-E	230-240, 50, 1	360 Watts	1/5	Destination	
	Noon			Destination	
NO221		O Series	1/4	NEMA E 1ED	
N8231 N8245	115, 60, 1	7.5 7.5	1/4	NEMA 5-15P NEMA 5-15P	
	115, 60, 1	7.5 7.5	1/4		
N8259	115, 60, 1	7.5 7.5		NEMA 5-15P NEMA 5-15P	
N8273 N8287	115, 60, 1 115, 60, 1	8.0	1/4	NEMA 5-15P	
INOZO7		xport Series	1/3	INCINIA 3-13F	
N8231-E	230-240, 50, 1	1.5 Amps /	1/5	Varies Per	
INOZ31-L	230-240, 30, 1	360 Watts	1/3	Destination	
N8245-E	230-240, 50, 1	1.5 Amps /	1/5	Varies Per	
1102 13 E	230 2 10, 30, 1	360 Watts	','	Destination	
N8259-E	230-240, 50, 1	2.5 Amps /	1/4	Varies Per	
110237 2	230 2 10, 30, 1	600 Watts	', '	Destination	
N8273-E	230-240, 50, 1	2.5 Amps /	1/4	Varies Per	
110273 E	230 2 10, 30, 1	600 Watts	'' '	Destination	
N8287-E	230-240, 50, 1	2.8 Amps /	1/3	Varies Per	
110207 E	250 2 10, 50, 1	650 Watts	1,3	Destination	
	N8200	OG Series		Destination	
N8231G	115, 60, 1	7.5	1/4	NEMA 5-15P	
N8245G	115, 60, 1	7.5	1/4	NEMA 5-15P	
N8259G	115, 60, 1	8.0	1/3	NEMA 5-15P	
N8273G	115, 60, 1	9.0	1/2	NEMA 5-15P	
		Export Series			
N8231G-E	230-240, 50, 1	1.5 Amps /	1/5	Varies Per	
		360 Watts		Destination	
N8245G-E	230-240, 50, 1	1.5 Amps /	1/5	Varies Per	
		360 Watts		Destination	
N8259G-E	230-240, 50, 1	2.8 Amps /	1/3	Varies Per	
		672 Watts		Destination	
	N8200	-ST Series			
N8230-ST					
N8240-ST]				
N8256-ST	115, 60, 1	7.5	1/4	NEMA 5-15P	
N8258-ST]				
N8275-ST					
	N8600 Series				
N8630	120, 60, 1	24.0	1/4	Hard Wire	
N8643	120/240, 60, 1	21.0	1/4	Hard Wire	
N8656	120/240, 60, 1	21.0	1/4	Hard Wire	
N8669	120/240, 60, 1	43.0	1/4	Hard Wire	
N8681	120/240, 60, 1	43.0	1/3	Hard Wire	
	i i	D Series		I	
N8717-D	120, 60, 1	8.3	NA	Hard Wire	
N8731-D	120, 60, 1	16.6	NA	Hard Wire	
N8745-D	208-230, 60, 1	15.0/16.0	NA	Hard Wire	
N8759-D	208-230, 60, 1	20.0/22.0	NA	Hard Wire	
N8773-D	208-230, 60, 1	24.0/27.0	NA	Hard Wire	
N8787-D	208-230, 60, 1	29.0/32.0	NA	Hard Wire	

Model	V, Hz, Ph	Amps	H.P.	Plug
		Export Series		
N8717-D-E	240, 50, 1	6.0 Amps /	NA	Hard Wire
		1450 Watts		
N8731-D-E	240, 50, 1	12.1 Amps /	NA	Hard Wire
		2900 Watts		
N8745-D-E	240, 50, 1	18.1 Amps/	NA	Hard Wire
		4350 Watts		
N8759-D-E	240, 50, 1	24.2 Amps /	NA	Hard Wire
		5800 Watts		
N8773-D-E	240, 50, 1	30.2 Amps /	NA	Hard Wire
		7250 Watts		
N8787-D-E	240, 50, 1	36.3 Amps /	NA	Hard Wire
		8700 Watts		
	N8700E	ESP Series		
N8717-DESP	208-230, 60, 1	2.4/2.7	NA	Hard Wire
N8731-DESP	208-230, 60, 1	4.8/5.4	NA	Hard Wire
N8745-DESP	208-230, 60, 1	7.2/8.1	NA	Hard Wire
N8759-DESP	208-230, 60, 1	9.6/10.8	NA	Hard Wire
N8773-DESP	208-230, 60, 1	12.0/13.5	NA	Hard Wire
N8787-DESP	208-230, 60, 1	14.4/16.2	NA	Hard Wire
		P-E Export Seri		
N8717-D-ESP-E	240, 50, 1	2.1 Amps /	NA	Hard Wire
		500 Watts		
N8731-D-ESP-E	240, 50, 1	4.2 Amps /	NA	Hard Wire
		1000 Watts		
N8745-D-ESP-E	240, 50, 1	6.3 Amps /	NA	Hard Wire
	, ,	1500 Watts		
N8759-D-ESP-E	240, 50, 1	8.4 Amps /	NA	Hard Wire
	2 :0,00, :	2000 Watts		
N8773-D-ESP-E	240, 50, 1	10.5 Amps /	NA	Hard Wire
NO773 D ESI E	240, 30, 1		14/1	Tidia Wiic
N8787-D-ESP-E	240, 50, 1	2500 Watts 12.6 Amps /	NA	Hard Wire
INO/O/-D-L3F-L	240, 30, 1		INA	Tiaid Wife
	NOZO	3000 Watts		
NOTACNO		ON Series	NIA	Hard Wire
N8746ND N8768N	120, 60, 1 208-230, 60, 1	17.0 15.0/16.0	NA NA	Hard Wire
N8768ND	208-230, 60, 1	15.0/16.0	NA	Hard Wire
NOTOGIND)-R Series	INA	Tiaiu Wile
N8744-R	120, 60, 1	16.6	NA	Hard Wire
N8759-R	208-230, 60, 1	15.0/16.0	NA	Hard Wire
N8776-R	208-230, 60, 1	20.0/22.0	NA	Hard Wire
N8794-R	208-230, 60, 1	24.0/27.0	NA	Hard Wire
110, 54 11		0 Series	14/1	Aldia Wile
N8831	120, 60, 1	17.0	NA	Hard Wire
N8845	208-230, 60, 1	15.0/16.0	NA	Hard Wire
N8859	208-230, 60, 1	20.0/22.0	NA	Hard Wire
N8873	208-230, 60, 1	24.0/27.0	NA	Hard Wire
N8887	208-230, 60, 1	29.0/32.0	NA	Hard Wire
		Export Series		
N8831-E	240, 50, 1	12.1 Amps /	NA	Hard Wire
_		2900 Watts	-	
N8845-E	240, 50, 1	18.1 Amps/	NA	Hard Wire
	,	4350 Watts		
N8859-E	240, 50, 1	24.2 Amps /	NA	Hard Wire
	,, .	5800 Watts	, .	
N8873-E	240, 50, 1	30.2 Amps /	NA	Hard Wire
, 5 -	,, .	7250 Watts	, .	
N8887-E	240, 50, 1	36.3 Amps /	NA	Hard Wire
1,3007 E	2.0,50,1	8700 Watts	. 4/ 1	I I I I I I I I I I I I I I I I I I I
<u> </u>	ı	o, oo watts		

Refrigeration

Temperature Class for all Export units is N.

Model	BTU Load	Evap BTU/TD/	Sys Cap	Refrig.
		TEMP		Charge
	81	00-EF Series		
8118-EF	204	19/50°/-15°	928	24.0oz
8132-EF	379	26/42°/-7°	1112	24.0oz
8145-EF	569	35/36°/-1°	1259	24.0oz
8159-EF	758	43/32°/3°	1373	24.0oz
8172-EF	948	51/29°/6°	1469	24.0oz
8186-EF	1138	59/26°/9°	1529	24.0oz
8118-EF-E	204	F-E Export Series 19/50°/-15°	928	454g
8132-EF-E	379	26/42°/-7°	1112	454g 454g
8145-EF-E	569	35/36°/-1°	1259	454g
8159-EF-E	758	43/32°/3°	1373	454g
8172-EF-E	948	51/29°/6°	1469	454g
8186-EF-E	1138	59/26°/9°	1529	454g
	810	0-EFN Series		
8148-EFN	379	26/42°/-7°	1112	24.0oz
8169-EFN	569	35/36°/-1°	1259	24.0oz
8191-EFN	758	43/32º/13°	1373	24.0oz
		N-E Export Serie		
8148-EFN-E	379	26/42°/-7°	1112	454g
8169-EFN-E	569	35/36°/-1°	1259	454g
8191-EFN-E	758	43/32º/13°	1373	454g
		000 Series NA		
		ON Series - NA		
		0-R Series - NA 100B Series		
N8118B	204	19/38°/-3°	1010	6.0oz
N8130B	379	26/31º/4°	1298	7.5oz
N8143B	569	35/26°/9°	1298	9.2oz
N8156B	758	43/32°/3°	1961	6.5oz
N8169B	948	51/29º/6º	2088	6.5oz
N8181B	1138	59/32°/3°	2088	7.5oz
	N8100B-E E	xport Series - R4	104A	
N8118B-E	204	19/38º/-3º	708	454g
N8130B-E	379	26/31°/4°	812	454g
N8143B-E	569	35/26°/9°	889	454g
		xport Series - R1		
N8156B-E	758	43/32°/3°	1373	454g
N8169B-E	948	51/29º/6º	1469	454g
NO144 DD		100BR Series	012	0.407
N8144-BR	379	26/31°/4° 35/26°/9°	812	9.4oz 6.5oz
N8159-BR N8176-BR	569 758	43/32°/3°	889 1373	7.5oz
N8194-BR	948	51/29°/6°	1469	7.9oz
NO 19 1 DIX		00-FA Series	1105	7.502
N8131-FA	1339	140/15°/20°	2154	16.0oz
N8144-FA	2035	140/22°/13°	3142	32.0oz
N8157-FA	2731	280/14º/21°	3806	32.0oz
N8169-FA	3374	280/20°/15°	5545	48.0oz
N8182-FA	4070	280/20°/15°	5545	48.0oz
	1	00NB Series		
N8146NB	454	17/40°/-5°	680	7.9oz
N8168NB	676	26/31º/4º	804	6.5oz
NO4 4 57 15 5	1	B-E Export Serie		45.
N8146NB-E	454	17/40°/-5°	680	454g
N8168NB-E	676	26/31°/4°	804	454g

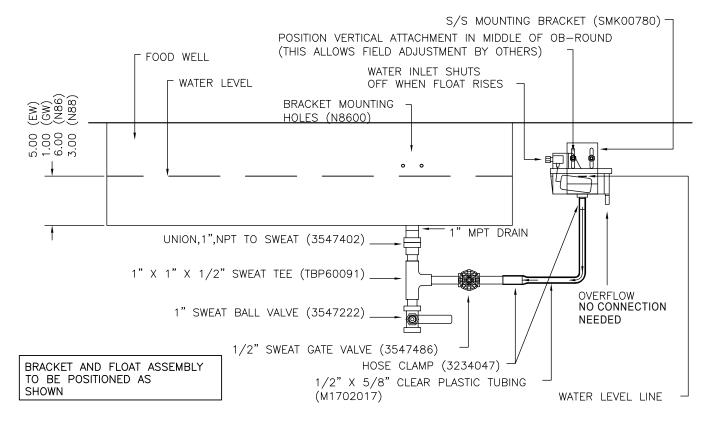
Model	BTU Load	Evap BTU/TD/	Sys Cap	Refrig.	
		TEMP		Charge	
	1	8200 Series	1		
N8231	379	26/42°/-7°	1112	24.0oz	
N8245	569	35/36°/-1°	1259	24.0oz	
N8259	758	43/32°/3°	1373	24.0oz	
N8273	948	51/29º/6°	1469	24.0oz	
N8287	1138	59/30°/5°	1787	24.0oz	
	1	-E Export Series	1		
N8231-E	379	26/42°/-7°	1112	454g	
N8245-E	569	35/36°/-1°	1259	454g	
N8259-E	758	43/32°/3°	1373	454g	
N8273-E	948	51/29°/6°	1469	454g	
N8287-E	1138	59/30°/5°	1787	454g	
	N8	200G Series			
N8231G	379	26/42°/-7°	1112	16.0oz	
N8245G	569	35/36°/-1°	1259	16.0oz	
N8259G	758	43/37°/-2°	1572	24.0oz	
N8273G	948	51/43°/-8°	2183	32.0oz	
	N82000	G-E Export Serie	S		
N8231G-E	379	26/42°/-7°	1112	454g	
N8245G-E	569	35/36°/-1°	1259	454g	
N8259G-E	758	43/37°/-2°	1572	454g	
	N82	200-ST Series			
N8230-ST	332	26/44°/-9°	1128	16.0oz	
N8240-ST	559	35/37°/-2°	1295	16.0oz	
N8256-ST	624	39/35°/0°	1359	16.0oz	
N8258-ST	870	44/33°/2°	1422	16.0oz	
N8275-ST	1140	53/29°/6°	1520	16.0oz	
	N	8600 Series			
N8630	379	26/42°/-7°	1112	16.0oz	
N8643	569	35/36°/-1°	1259	16.0oz	
N8656	758	43/32°/3°	1373	16.0oz	
N8669	948	51/29°/6°	1469	16.0oz	
N8681	1138	59/30°/5°	1787	24.0oz	
	N870	0D Series - NA			
	N8700D-E Export Series - NA				
		DESP Series - NA			
		P-E Export Serie			
		ON Series - NA			
	N8700-R Series - NA				
	-	00 Series - NA			
	N8800	-E Export Series			
		•			

Optional Auto Fill Installation

• Option is a loose parts kit. Installation requires a plumber.

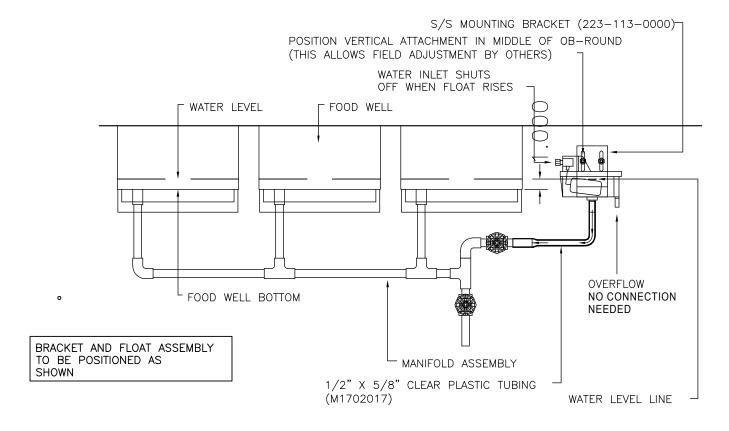
APPLICABLE TO N8600 & N8800 MODELS

- 1. Locate mounting holes on outside operator drop-in body and mount float and bracket using thumb screws.
- 2. Install drain plumbing as shown.
- 3. Connect clear plastic tubing to 1/2" copper stub and connect to the float. Use hose clamps to secure.
- 4. Connect fill line to 1/4" compression fitting.
- 5. Loosen thumb screws to achieve desired water level.



APPLICABLE TO N8700 MODELS

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- 4. Connect fill line to 1/4" compression fitting.
- 5. Loosen thumb screws to achieve desired water level.



Section 3 Operation

A DANGER

The on-site supervisor is responsible for ensuring that operators are made aware of the inherent dangers of operating this equipment.

A DANGER

Do not operate any appliance with a damaged cord or plug. All repairs must be performed by a qualified service company.

A DANGER

Never stand on the unit! They are not designed to hold the weight of an adult, and may collapse or tip if misused in this manner.

A Warning

Do not contact moving parts.

AWarning

All covers and access panels must be in place and properly secured, before operating this equipment.

AWarning

Damp or wet hands may stick to cold surfaces.

A Warning

Never use sharp objects or tools to remove ice or frost. Do not use mechanical devices or other means to accelerate the defrosting process.

A Warning

Do not block the supply and return air grills or the air space around the air grills. Keep plastic wrappings, paper, labels, etc. from being airborne and lodging in the grills. Failure to keep the air grills clear will result in unsatisfactory operation of the system.

∴ Caution

Units with pans should be operated with pans in place. Operating the unit without all pans in place will lower efficiency and may damage the unit.

Product Quality in Cold Pans

A Warning

The operator of this equipment is solely responsible for ensuring safe holding temperature levels for all food items. Failure to do so could result in unsafe food products for customers.

These units are not designed to cool warm food products. Items should be placed in the unit pre-cooled at least to the desired holding temperature, if not slightly colder. In some applications, a gradual warming of product may occur, particularly at the exposed top of the product. Stirring or rotation of the product is necessary to maintain overall temperature.

Warming of food product can occur very quickly outside of the unit. When loading or rotating product, avoid leaving food items in a non-refrigerated location for any length of time to prevent warming or spoilage. To ensure product quality product must be rotated every four hours.

Operation Section 3

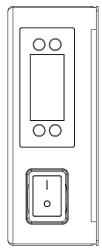
8100-EF(N) Series Operation

NoteThe cold pan is not intended to be used with ice.

There is a switch on the compressor housing front to turn the 8100-EF units on and off. The unit must be turned off when not in use or overnight for defrosting and cleaning.

8100-EF Series LiquiTec® Eutetic fluid cold pans are adjusted at the factory to provide proper operation without any further adjustments.

The temperature control is located on the condensing housing.



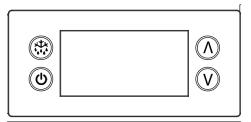
Power Switch & Temperature Control

- 1. At initial start-up or anytime power is disconnected, then reconnected to the unit, the control will go into normal cooling mode.
- 2. The temperature control will cycle the compressor and condenser fan motor to maintain proper temperature.

Notice

Temperature displayed is for refrigeration set point purposes only. Display does not reflect air or product temps in unit.

TEMPERATURE CONTROL & DISPLAY



Op	Operation / Indication					
Status	Displayed	((Comments			
Normal (°C)	Temp. [°C]		Unit depends on setting			
Normal (°F)	Temp. [°F]		(parameters in control)			
Show set-point	Temp.					
Sensor 1 defect	E01 🔔	Χ	Air sensor			
Sensor 2 defect	E02 🔔	Χ	Coil sensor			
Sensor 3 defect	E03 🔔	Χ	Open			
Sensor 4 defect	E04 🔔	Χ	Open			
High temperature alarm	Hi ♣	Х	Automatically switching at 2 sec rate			
Low temperature alarm	Lo 🔔	Χ				
Line voltage too high	uHi 🔔	Χ				
Line voltage too low	uLi 🔔	Χ				
Control calls for cooling for more than 24 hours straight	LEA 🔔	X	Time includes defrost. Error will go away if the control cycles off the compressor or if the power is shut off. If error is on a cold pan it could be related to a high ambient temperature or not shutting the rail off nightly.			

Press upper or lower right button.

- Display show actual set-point (blinking).
 - If buttons untouched for 3 seconds returns to normal
- Increase set-point by pressing upper button. Max value depends on parameters in control.
- Decrease set-point by pressing lower button. Min value depends on parameters in control.
 - If buttons untouched for 3 seconds returns to normal and stores new set-point.

Press lower left button for 5 seconds.

- Unit goes into stand-by mode.
 - The display will read Off, then a period.
- Press the lower left button again for 5 seconds.
 - · The display will read On.
 - The unit will then start up in normal cooling mode.

Temperature Alarm

The alarm will sound and flash HI or LO 90 minutes after the unit has reached its alarm temperature point or after any power interruption if the temperature is above or below the alarm set points.

Section 3 Operation

CHANGING DISPLAY FROM FAHRENHEIT TO CELSIUS ON ERC112 CONTROL

1. Simultaneously hold the up and down arrows for 5 seconds to access menu for password protected parameters.



2. Screen should temporarily flash **PAS** and then move to a numeric screen.



3. Scroll to **187** using the up/down arrows and push the stand-by button (lower left button) to enter.



4. Scroll to *dis* using the up/down arrows and push the stand-by button (lower left button) to enter into the display menu.



5. Scroll to *CFu* using the up/down arrows and push the stand-by button (lower left button) to enter the display unit menu.



6. -F should be displayed indicating Fahrenheit. Use the down arrow to change it to **-C** for Celsius and hit the stand-by button (lower left button) to enter the change.



7. Push the defrost button (upper left button) to move out of the display unit menu.



8. Push the defrost button (upper left button) to move out of the display menu and back to the normal display.

NOTE: For steps 7 and 8, display will return back to normal display after 30 seconds of inactivity.



Operation Section 3

N8100B, N8100-BR & N8100NB Operation

The temperature control is used to turn the unit on and off as well as control the temperature of the cold pan. The control is located in the machine compartment. To turn the cold pan off, turn the knob to the off position. The unit must be turned off when not in use or overnight for defrosting and cleaning.

If the cold pan is to be used with ice, it is recommended that the optional perforated bottoms be used. These will allow ice to melt properly.

These mechanically cooled cold pans are adjusted at the factory to provide proper operation. However, if it is necessary to adjust the temperature, turn the knob clockwise as indicated on the control. Settings are from 1 thru 7 (7 being the coldest).

- Adjustments should be made gradually.
- Several small adjustments will be more effective than one large adjustment.
- It may take an hour or longer to realize the temperature change depending on the application and location of the unit.

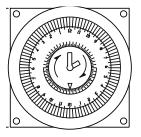
N8100-FA Operation

There is a switch on the compressor housing front to turn the N8100-FA units on and off. The unit must be turned off when not in use or overnight for defrosting and cleaning.

NOTE: Food in the N8100-FA pans should not be loaded in such a way as to interfere with the air curtain flowing over the cold pans.

Defrost Timer

The recommended defrost timer setting is every 2 hours for 15 minutes.



Pressure Control

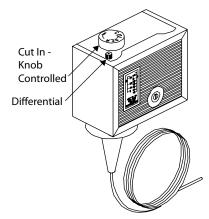
The temperature is controlled by an adjustable pressure control located in the machine compartment and adjustable control has the word COLDER near the knob, with an arrow to indicate the adjustment direction. This control is field adjustable and does not require a service agent. If you have any questions, call an authorized service agent.

In attempting to adjust the pressure control, you can do damage to the unit by accidentally adjusting the differential.

NOTE: Delfield is not responsible for charges incurred while adjusting the pressure control.

Factory settings are:

- 30 psi (207 kPa) differential
- 80 psi (552 kPa) cut-in
- 50 psi (345 kPa) cut-out



Section 3 Operation

N8200 & N8200-ST Operation

N8200 and N8200-ST series frost tops are designed to maintain an even layer of frost to pleasantly display product. Once turned on, the compressor will run continuously. There is no temperature control. The ON/OFF switch is the only means available to cycle the unit.

Since it takes time for the frost to accumulate initially, the unit should be turned on approximately one hour before it is required. Product should not be placed on the frost top prior to turning the unit on, because it may freeze to the surface of the unit.

The unit must be turned off when not in use or overnight for defrosting and cleaning.

Operation N8200G

N8200G Series granite cold slabs are designed to maintain a low temperature surface for quick turn products such as ice cream. Frost patterns will vary depending on room conditions such as temperature, humidity and airflow. The work zone of the granite surface is considered to be inside a 2.0" (5.1cm) perimeter. Temperatures in the perimeter zone may be higher and again the frost patterns in this area will vary based on room conditions.

Unit is controlled by an on/off switch. Once turned on, the unit will run continuously. There is no temperature control in this unit. Turn the unit on approximately two hours prior to use to allow for ample cool down time. At 75°F ambient temperature the unit will reach operating temperature of 0°F to 20°F in 2 hours.

The unit must be turned off when not in use or overnight for defrosting and cleaning.

Operation Section 3

8600 Hot/Cold Series Operation

Hot Operation

A DANGER

When operated at the highest temperature setting, the top of the unit will become very hot. Staff and customers using the equipment should be informed about this.

Never use anything other than plain water in the wells or tank. Failure to observe this warning may result in personal injury or damage to the unit.

⚠ Caution

Using ice in a hot food well can cause condensation and damage to the well over time.

N8600 Series hot and cold combination pans must be operated with water in the well for proper hot operation. Fill well with a minimum of 4.0" (10.2cm) of water. Place function switch in HOT position to begin heating. Turn thermostat dial to the desired temperature.

To turn unit off, simply move the function switch to OFF position. Drain water and allow unit to cool before cleaning or switching to cold operation.

Switching From Hot To Cold Operation

- 1. Place the function switch in the OFF position and drain out hot water.
- 2. Allow the unit to cool until it can be safely cleaned.
- 3. When clean up procedures are complete, unit will be ready for cold operation. This takes about one hour.

⚠ Caution

To assure maximum compressor life, do not switch from "hot" to "cold" operation without allowing a cool down period. Never switch from hot to cold operation while hot water remains in the pans. Failure to observe this warning will greatly reduce compressor life and eventually cause premature compressor failure.

Cold Operation

Simply place the function switch to the COLD position. The compressor controller has been factory set and no temperature adjustment should be necessary.

If the cold pan is to be used with ice, it is recommended that the optional perforated bottoms be used. These will allow ice to melt properly.

Switching From Cold To Hot Operation

No special procedure is required to switch from the cold to hot operation. Be certain to fill with a minimum of 4.0" of water.

Note

The unit is designed so that the compressor and the heating elements cannot operate at the same time. Continued operation of the compressor in the hot position is not normal. Call for service if this happens.

The unit must be turned off when not in use or overnight for defrosting and cleaning.

N8600 Immersion Heater High Limit

As a safety feature, the N8600 food well immersion heater includes a high limit safety switch. If the heater gets too hot the safety switch will trip and turn the heater off. A pilot light on the control panel will illuminate when the safety switch is tripped. To reset the safety switch, first turn OFF the thermostat or Power switch and then determine if low water is the cause. If low water is not the cause, contact service for resolution. If low water is the cause, carefully remove food pans and refill the water. This will allow the immersion heater to cool and the safety switch will automatically reset. The unit must be turned OFF as directed or safety switch will not reset even if water is refilled to proper level. Replace food pans and turn thermostat or Power switch back on.

Section 3 Operation

N8700-D, N8700N, N8700-R & N8800 Series Operation

These units are designed to hold warm food product between 140°F to 160°F (60°C to 71°C).

N8700-D, N8700N and N8700-R series individually heated hot food units may be operated wet (with water in the wells) or dry. Wet operation is recommended for better performance.

N8800 Series single tank hot food units are designed to be operated wet (with water in the tank) only.

Note

Proper water level is approximately 2.0" (5.1cm). It must be maintained to prevent damage to the tank on the N8800 Series units.

After the unit is hard wired to the electrical system, select desired temperature by rotating temperature control. A knob and indicator light are provided for each individual heated food well.

First Time Use

Before the unit is used the first time for serving, turn the temperature knob to HI and heat the well for 20 to 30 minutes.

Any residue or dust that adhered to the heater element(s) will be burned off during this initial preheat period.

When serving thick sauces always use the hot food well in wet operation. This provides more uniform temperature for the sauce.

Note

Never place food directly in well. Always use pans.

For most efficient operation, keep covered inserts in each well during preheating or when empty.

Always place covers on pans when not serving to prevent food from drying out.

Wet Operation

A DANGER

When operated at the highest temperature setting, the top of the unit will become very hot. Staff and customers using the equipment should be informed about this.

A DANGER

Steam can cause serious burns. Always use some type of protective covering on your hands and arms when removing lids from the unit. Lift the lid in a way that will direct escaping steam away from your face and body.

Never use anything other than plain water in the wells or tank. Failure to observe this warning may result in personal injury or damage to the unit.

∴ Caution

Using ice in a hot food well can cause condensation and damage to the well over time.

Fill the food well with a minimum of 2.0" (5.1cm) of water and cover with lid or empty pan. To preheat water, set temperature control at HI. With pans in place, wells will boil water. Food temperature will vary depending on type and amount of product. To minimize steam and water usage, set control at lowest setting that will maintain proper food temperature. To reduce preheating time, use hot water to fill the well.

Dry Operation N8700 Series only

A DANGER

When operated dry, the well bottoms become very hot. Do not allow unprotected skin to contact any well surface.

Wet operation is usually much more efficient and is preferred. However, these units may be operated without water with no damage to the unit.

When operated dry, the bottom of the well will discolor. To clean, use a stainless steel cleaner or mild abrasive.

Operation Section 3

N8700-DESP Operation

These units are designed to hold warm food product between 140°F to 160°F (60°C to 71°C).

N8700-DESP series individually heated hot food units may be operated wet (with water in the wells) or dry. However, dry operation using 6.0" deep pans produces optimum performance.

A power switch and digital control are provided for each individual heated food well. After the unit is hard wired to the electrical system, turn the power switch ON to energize the control; the digital display will read OFF. Press Set and then use the arrows to select the desired temperature setting (1-10). The new temperature setting is entered 3 seconds after the last button is pressed. When the power switch is used to turn the well OFF and back ON the temperature setting will remain.

Note

Never place food directly in well. Always use pans.

For most efficient operation, keep covered inserts in each well during preheating or when empty.

Always place covers on pans when not serving to prevent food from drying out.

Dry Operation

A DANGER

When operated dry, the well bottoms become very hot. Do not allow unprotected skin to contact any well surface.

Dry operation is more efficient and is preferred.

When operated dry, the bottom of the well will discolor. To clean, use a stainless steel cleaner or mild abrasive.

Wet Operation

A DANGER

When operated at the highest temperature setting, the top of the unit will become very hot. Staff and customers using the equipment should be informed about this.

A DANGER

Steam can cause serious burns. Always use some type of protective covering on your hands and arms when removing lids from the unit. Lift the lid in a way that will direct escaping steam away from your face and body.

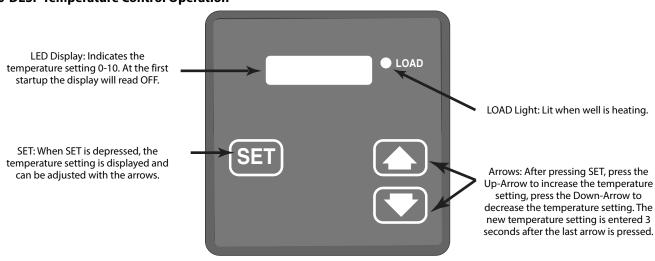
Never use anything other than plain water in the wells or tank. Failure to observe this warning may result in personal injury or damage to the unit.

⚠ Caution

Using ice in a hot food well can cause condensation and damage to the well over time.

Fill the food well with a minimum of 2" (5cm) of water and cover with lid or empty pan. To preheat water, set temperature control at 3. With pans in place, wells will boil water. Food temperature will vary depending on type and amount of product. To minimize steam and water usage, set control at lowest setting that will maintain proper food temperature. To reduce preheating time, use hot water to fill the well. Preheating time with room temperature water is one hour.

N8700-DESP Temperature Control Operation



Section 4 Maintenance

▲ DANGER

It is the responsibility of the equipment owner to perform a personal protective equipment hazard assessment to ensure adequate protection during maintenance procedures.

A DANGER

Failure to disconnect the power at the main power supply disconnect could result in serious injury or death. The power switch DOES NOT disconnect all incoming power.

A DANGER

Disconnect electric power at the main power disconnect for all equipment being serviced. Observe correct polarity of incoming line voltage. Incorrect polarity can lead to erratic operation.

A Warning

Never use sharp objects or tools to remove ice or frost. Do not use mechanical devices or other means to accelerate the defrosting process.

Cleaning and Sanitizing Procedures

∴ Caution

Maintenance and servicing work other than cleaning as described in this manual must be done by an authorized service personnel.

GENERAL

▲ Warning

When using cleaning fluids or chemicals, rubber gloves and eye protection (and/or face shield) must be worn.

You are responsible for maintaining the equipment in accordance with the instructions in this manual. Maintenance procedures are not covered by the warranty.

Maintenance	Daily	Weekly	Monthly	After Prolonged Shutdown	At Start-Up
Exterior	X			X	X
Gasket	Х			X	X
N8100-FA Series Drain		Х		Х	Х
Condenser Coil			Х	X	X

Maintenance Section 4

EXTERIOR CLEANING

A Warning

When cleaning the unit, care should be taken to avoid the front power switch and the rear power cord. Keep water and/or cleaning solutions away from these parts.

A Warning

Never use a high-pressure water jet for cleaning or hose down or flood the units with water. Do not use power cleaning equipment, steel wool, scrapers or wire brushes on stainless steel or painted surfaces.

⚠ Caution

Never use an acid based cleaning solution! Many food products have an acidic content, which can deteriorate the finish. Be sure to clean the stainless steel surfaces of ALL food products.

Clean the area around the unit as often as necessary to maintain cleanliness and efficient operation.

Gaskets require daily cleaning to prevent mold and mildew build up and also to retain the elasticity of the gasket. Gasket cleaning can be done with the use of warm soapy water (no citrus based cleaners). Avoid full strength cleaning products on gaskets as this can cause them to become brittle and crack. Never use sharp tools or knives to scrape or clean the gasket.

Wipe surfaces with a damp cloth rinsed in water to remove dust and dirt from the unit. Always rub with the "grain" of the stainless steel to avoid marring the finish. If a greasy residue persists, use a damp cloth rinsed in a mild dish soap and water solution. Wipe dry with a clean, soft cloth.

Never use steel wool or abrasive pads for cleaning. Never use chlorinated, citrus based or abrasive cleaners.

Stainless steel has a clear coating that is stain resistant and easy to clean. Products containing abrasives will damage the coating and scratch the panels. Daily cleaning may be followed by an application of stainless steel cleaner which will eliminate water spotting and fingerprints. Early signs of stainless steel breakdown are small pits and cracks. If this has begun, clean thoroughly and start to apply stainless steel cleaners in attempt to restore the steel.

Defrosting

Refrigerated cold pans should be defrosted daily. Never use sharp objects or tools to clean or scrape ice/frost build up from the refrigerated cold pans. A puncture to the pan could cause irreparable damage to the refrigeration system. Units with a Eutectic Fluid Cold Pan require the same precautions. The fluid is NOT refillable and loss of fluid due to a puncture would cause irreparable damage.

CLEANING THE CONDENSER COIL

In order to maintain proper refrigeration performance, the condenser fins must be cleaned of dust, dirt and grease regularly. It is recommended that this be done monthly. If conditions are such that the condenser is totally blocked in a month, the frequency of cleaning should be increased. Clean the condenser with a vacuum cleaner or stiff brush. If extremely dirty, a commercially available condenser cleaner may be required.

Failure to maintain a clean condenser coil can initially cause high temperatures and excessive run times. Continuous operation with a dirty or clogged condenser coil can result in compressor failure. Neglecting the condenser coil cleaning procedures will void any warranties associated with the compressor and cost to replace the compressor.

N8100-FA SERIES DRAIN MAINTENANCE

Each N8100-FA unit has a drain located inside the unit that removes the condensation from the evaporator coil and routes it to an external condensate evaporator pan. Each drain can become loose or disconnected during normal use. If you notice water accumulation under the unit, be sure the drain tube is connected to the evaporator drain pan and the end of the drain tube is in the condensate evaporator. The leveling of the unit is important as the units are designed to drain properly when level. Be sure all drain lines are free of obstructions.



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