

FASTENING SCHEDULE		
CONNECTION	FASTENER	NUMBER OR SPACING
Joist to band joist, face nail	16d common	3
Joist to sill or girder, toe nail	8d common	3
Bridging to joist, toe nail each end	8d common	2
Sole plate to joist or blocking, face nail	16d common	16" o.c.
Top or sole plate to stud, end nail	16d common	2
Stud to sole plate, toe nail	8d common	4
Doubled studs, face nail	10d common	24" o.c.
Doubled top plate, face nail	10d common	16" o.c.
Top plates, top and interactions, face nail	–	2-16d or 3-10d common
Continuous header, two pieces	–	16" o.c. along each edge
Ceiling joists to plate, toe nail	8d common	3
Continuous header to stud, toe nail	8d common	3
Ceiling joists, laps over partitions, face nail	–	3-16d or 4-10d common
Ceiling joists to parallel rafters, face nail	–	3-16d or 4-10d common
Rafter to plate, toe nail	8d common	3
Build-up corner studs	16d common	24" o.c.
Build-up girders and beams, of three members	20d common	32" o.c. at top and bottom and staggered 2 ends and at each splice.
Studs to sole plate, end nail	16d common	2 each end
Wood Structural Panel and Particleboard Roof & Wall Sheathing		
Wall Sheathing 1/2" or less	6d common	6" o.c. edges and 12" o.c. intermediate
19/32" or greater	8d common	6" o.c. edges and 12" o.c. intermediate
5/16" – 1/2"	16 ga galvanized wire staples, 3/8" min. crown. Length of 1" plus wood structural panel or particleboard thickness	4" o.c. edges and 8" o.c. intermediate
19/32" – 3/4"	16 ga galvanized wire staples, 3/8" min. crown. Length of 1" plus wood structural panel or particleboard thickness	2" o.c. edges and 5" o.c. intermediate
Fiberboard Sheathing (1)		
1/2" Regular	8d common nail or 11 ga. galv. roofing nail 1-1 1/2" long with 7/16" head	6" o.c. at edges, 12" o.c. at other bearing areas
1/2" Structural	8d common nail or 11 ga. galv. roofing nail 1-3 3/4" long with 7/16" head	3" o.c. at edges, 6" o.c. at other bearing areas
Gypsum Sheathing 1/2"	11 ga. 1-1/2" galvanized 7/16" head	4" o.c. at edges 8" o.c. at other bearings
5/8"	11 ga. 1-1/2" galvanized 7/16" head	4" o.c. at edges 8" o.c. at other bearings
Gypsum Wallboard 1/2"	1-3/8" drywall nail (2)	7" o.c. on ceilings 8" o.c. on walls
5/8"	1-1/2" drywall nail (2)	8" o.c. on ceilings 8" o.c. on walls

NOTES:

1. Fiberboard sheathing may be stapled using 16 ga galvanized staples 1-1/8" long for 1/2" sheathing and 1-1/2" long for 25/32" sheathing. Staples to have minimum crown of 7/16" and spaced 3" o.c. at edges and 6" o.c. at other bearings.
2. Driwall nails shall conform to ASTM C 514.
3. Siding applied to 5/8" net wood sheathing, 15/32" wood structural panel or 1/2" particleboard sheathing.
4. Corrosion-resistant nails spaced 6" o.c. at edge and 8" o.c. at intermediate supports. Nails shall have a minimum edge distance of 3/8".

SPECIFICATION SHEET

LOSONE SELECT® IN-LINE VENTILATORS MODELS L200L, L250L & L300L

Incredibly reliable. Unbelievably quiet. Offering the **CFM** choices you need at the lowest sound levels in the industry.

FEATURES

BLOWER:

- Blower with quiet operation
- Resilient anti-vibration mounts
- Dynamically balanced, polymeric centrifugal blower wheel for quiet, efficient performance
- Permanently lubricated, thermally protected motor
- Plug-in motor rated at 120 VAC
- Designed for continuous operation

HOUSING:

- Rugged, seamless extruded aluminum
- 4" round duct connectors
- 18" long for ducting or wall (also permitting) 24" long for mounting brackets for easy installation and ultimate adaptability to various mounting requirements
- Acoustic baffle dampen located within duct of duct connector

- Factory-welded horizontal discharge position - easily converted to vertical discharge
- Removable and allows for easy motor access without disturbing ductwork
- Suitable for kitchen exhausts

- CUL (UL) Listed
- Model 57V (white) / 57V (White) 3 Amp Electric
- Model 58V (White) / 58V (White) 5-15 Minute Timer
- Model 61V (White) / 61V (White) 15-Minute Timer
- Model 71V (White) / 71V (White) 12-Hour Timer
- Model 72V (White) / 72V (White) 6-Amp Electric
- Variable Speed Control
- Model 80L Electric Speed Control (optional)

TYPICAL SPECIFICATION

VENTILATOR shall be Broan Model SPECIFICATION, (L200L, L250L, L300L).

Ventilator shall have galvanized steel housing. Housing to have removable, sound absorbing baffle and removable panel to allow motor access. With no ducting to ductwork. Automatic backdraft damper to be located within duct of duct connector. Baffle assembly entering panel shall be adjustable for either horizontal or vertical installation.

Blower unit shall be removable from housing and will have a permanently, dynamically balanced centrifugal-type blower wheel. Motor to be permanently lubricated and mounted with resilient anti-vibration mounts. RPM not to exceed number listed for each motor.

As delivered shall be as close and sound levels no greater than listed. As shown, allow for air and sound level shall be certified by BAA, UL and/or, CUL, and, UL, listed.

Broan-Neptune LLC, 209 West State Street, Hartford, CT 06107 (1-800-437-4142)

Broan-Neptune Canada, Inc., 1145 Street Clair, Mississauga, Ontario, L4V 1R7 (1-888-682-7635)

REFERENCE	QTY.	REMARKS	Project	Location
			Architect	
			Engineer	
			Contractor	
			Submitted by	Date

509 990478-01

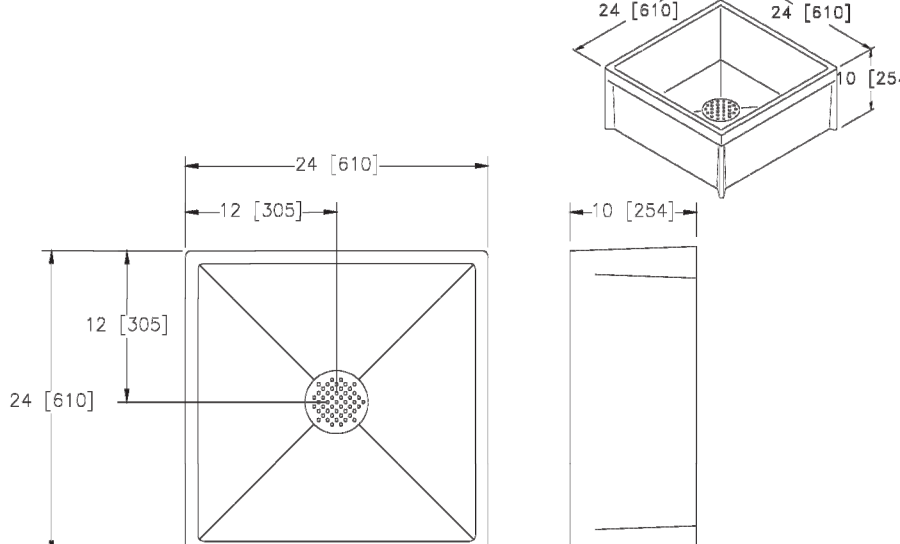
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Z1996-24 MOP SERVICE BASIN 24 x 24 [610 x 610]

TAG

Dimensional Data (inches and [mm] are Subject to Manufacturing Tolerances and Change Without Notice



Product	Mop Basin Size	Approx. Wt. [LBS]	ENGINEERING SPECIFICATION: Z1996-24
Z1996-24	24 x 24 x 10 [610 x 610 x 254]	60 [27]	Mop Service Basin 24 x 24 x 10 [610 x 610 x 254] Molded high density composite basin. P.V.C. drain pipe, stainless steel strainer and 1/8" gasketed outlet connection. Specifications: Meets ANSI Z124-6, CSA listed, and APWCO listed under the # 3961.

OPTIONS (Choose(s) apply appropriate option(s))

SUPPLIES

- AW White Body
- SS Stainless Steel Bumper Guard
- BV Vinyl Bumper Guard
- AH Hoses and Hoses Bracket
- MI Mop Hanger
- NHG P.V.C Drain Gasket for No-Hub Pipe
- PRP Pipe Reducer for P.V.C Drain
- PRB Pipe Reducer for Stainless Steel Drain
- SDL Stainless Steel Drain with Dome Strainer, Lint Basket and Locking Nut
- SFL Service Faucet
- WG Well Guard R20 Gauge Type 304 Stainless Steel (2 Panels-Inside and Outside)



ZURN INDUSTRIES, LLC • SPECIFICATION DRAWING ORIGINATOR • 1407 Peachtree Ave. • Ste. PA 1854

Phone: (866)601-2111 • Fax: (866)450-7203 • World Wide Web: www.zurn.com

In Canada: ZURN INDUSTRIES LIMITED • 3644 Neville Drive • Mississauga, Ontario L4V1V7 • Phone: (905)663-2111 • Fax: (905)663-2101 • C.N. No. 12889

LIGHT COMMERCIAL

LC[®]

FD-2202 3" x 4" General Purpose Floor Drain

TAG

FD-2202 3" x 4" General Purpose Floor Drain
 Recommended for foot traffic and light carts. It is constructed of a heavy walled PVC or ABS body complete with brass threaded inserts to accept a secured stainless steel strainer.

Options:

— **VP** Vandal Proof

Product	'A' Connections
FD-2202-PVC	3" x 4" Solvent Weld
FD-2202-ABS	3" x 4" Solvent Weld

Typical Installation

LIGHT COMMERCIAL PLUMBING PRODUCTS 3885 SWIFT ROAD, JAMES TOWN, NY 14701 PHONE: 716-885-1131 FAX: 716-885-1128
 World Wide Web: WWW.LCPLUMB.COM

Rev. _____
 Dwg. No. 69982

Date: 5/16/03

C.N. No. 00513
 Product No. FD-2202



REVISIONS

#	DATE
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A COMFORT STATION AT:

[illegible][illegible]

Performance Parameters Data

REAL-BEAM

240V AirFlow Performance Data—RHSL (PSC Motor)

Inlet Air Temp Dry Bulb	Inlet Air Temp Wet Bulb	Manufacturer's Air Flow Range (ASHRAE 55)	Blower Size RHSL A-1 (4) (1)	Fan Speed	PSC (CH) Air Delivery (RPM/Min)—24V Units									
					Rated Static Pressure—Total Static (in. WPG)									
					0.1-0.2	0.2-0.3	0.3-0.4	0.4-0.5	0.5-0.6	0.6-0.7	0.7-0.8	0.8-0.9	0.9-1.0	0.7-1.0
					CFM	668 (135)	827 (133)	973 (133)	1083 (134)	1203 (134)	1317 (134)			
18-17°F to 18-17°F Heater	High	24V	51/1711 CM [230/2310] 1	1/2 Speed	Low	100	171	166	161	150				
				High	100	171	166	161	150	214 (135)	214 (135)	214 (135)	214 (135)	
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				High	100	171	166	161	150	214 (135)	214 (135)	214 (135)	214 (135)	
				High						812	653	653	653</	

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1481 HODGES MILL ROAD
WATKINSVILLE, GA
30677
(404) 285-8646

TITLE: PRODUCT :
AND FAST
SCHEDULE

JOB #: 2513

DATE: 02.04.26

SHEET #

SPECS

LOW VOLTAGE/240VAC

LOW VOLTAGE/240VAC

Unit Dimensions

15 SEER Cooling Capacity	18, 24	30	36, 42, 48, 60
Height "H" (in.) (mm)	20 1/2 (516.7)	27 1/2 (699.2)	32 1/2 (828.0)
Length "L" (in.) (mm)	27 1/2 (699.2)	31 1/4 (792.8)	31 1/4 (803.2)
Width "W" (in.) (mm)	27 1/2 (699.2)	27 1/2 (699.2)	31 1/4 (803.2)

*Height dimension includes baseboard and/or baseboard.

1 Designates Metric Conversions

Diagram of the outdoor unit showing dimensions H, L, and W. The unit is shown from a three-quarter perspective. Dimension H is the height, L is the length, and W is the width. A label 'SEE DETAIL A' points to the base of the unit.

Diagram of the outdoor unit mounted on a base pad. The unit is shown from a three-quarter perspective. A label 'BASE PAD CONCRETE OR OTHER SUITABLE MATERIAL' points to the base pad. A label 'ELEVATION ABOVE ANTICIPATED SNOW IS NECESSARY' points to the unit.

Diagram of the outdoor unit showing internal components and connections. The unit is shown from a three-quarter perspective. Labels include: LOW VOLTAGE 7/8" (20 mm) HOLE DIAMETER, HIGH VOLTAGE 1 1/2" (38 mm) HOLE DIAMETER, SERVICE FITTING, 2" [50.8 mm], COMMON SERVICE PORT, LIQUID LINE CONNECTION, VAPOR LINE CONNECTION, BASEFLAT™, 2 & 6 TON MODELS USE A FLUORINATED BASEFLAT RETARDER, BASEFLAT HEIGHT IS 3 1/2" (89.3 mm).

DETAIL A

16 RELY ON RUUD.™

REFRIGERANT LINE SIZE INFORMATION
 1/2" LBS.

Heat Pump Refrigerant Line Size Information

Capacity Rating R-410A Heat Pump	Line Capacity (lb./ft.) (nom)	Line Size (in.)	Liquid Line Size		Suction Line Size (at 400 psig Sat. Press. Dry Bulb)		Minimum Refrigerant Charge—Feet (lb.)	
			1/2" T	2" T	1/2" T	2" T	1/2" T	2" T
1.0 Ton	3/8" (18.35)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	N/A	N/A
1 1/2 Ton	3/8" (18.35)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	28 (3.93)	32 (3.93)
2 Ton	3/8" (18.35)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	42 (5.84)	42 (5.84)
2 1/2 Ton	3/8" (18.35)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	56 (7.78)	56 (7.78)
3 Ton	3/8" (18.35)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	70 (9.63)	70 (9.63)
3 1/2 Ton	3/8" (18.35)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	84 (11.52)	84 (11.52)
4 Ton	3/8" (18.35)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	98 (13.41)	98 (13.41)
4 1/2 Ton	3/8" (18.35)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	112 (15.30)	112 (15.30)
5 Ton	3/8" (18.35)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	126 (17.19)	126 (17.19)
5 1/2 Ton	3/8" (18.35)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	140 (19.08)	140 (19.08)
6 Ton	3/8" (18.35)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	154 (20.97)	154 (20.97)
6 1/2 Ton	3/8" (18.35)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	168 (22.86)	168 (22.86)
7 Ton	3/8" (18.35)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	182 (24.75)	182 (24.75)
7 1/2 Ton	3/8" (18.35)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	196 (26.64)	196 (26.64)
8 Ton	3/8" (18.35)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	210 (28.53)	210 (28.53)
8 1/2 Ton	3/8" (18.35)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	224 (30.42)	224 (30.42)
9 Ton	3/8" (18.35)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	238 (32.31)	238 (32.31)
9 1/2 Ton	3/8" (18.35)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	252 (34.20)	252 (34.20)
10 Ton	3/8" (18.35)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	266 (36.09)	266 (36.09)
10 1/2 Ton	3/8" (18.35)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	280 (37.98)	280 (37.98)
11 Ton	3/8" (18.35)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	294 (39.87)	294 (39.87)
11 1/2 Ton	3/8" (18.35)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	308 (41.76)	308 (41.76)
12 Ton	3/8" (18.35)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	322 (43.65)	322 (43.65)
12 1/2 Ton	3/8" (18.35)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	336 (45.54)	336 (45.54)
13 Ton	3/8" (18.35)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	350 (47.43)	350 (47.43)
13 1/2 Ton	3/8" (18.35)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	364 (49.32)	364 (49.32)
14 Ton	3/8" (18.35)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	5/16" (15.71)	378 (51.21)	378 (51.21)</

ELECTRICAL AND PHYSICAL DATA
TYPICAL VALUES

Electrical and Physical Data

Model Number NEMA	ELECTRICAL					PHYSICAL											
	Phase Frequency (Hz) Voltage (Vrms)	Compressor Power Load (watts) Current (Amps) Efficiency (%)	Full Load Amperage (FLA)	Minimum Starting Current (MCA)	Overload Protection (Amps)	Frame or IMEC Cooling Method Maximum Temperature (°C)	Outdoor Unit Net Weight (kg)	Ratio, Fan Circuit Coil (a)	Weight Net (kg)	Shipping Unit (kg)							
See 77972																	
18	1-140-200250	99	48	0.8	13/13	15/15	10/20	13/21 (1.27)	1 (260)	122/25	94.6 (27.19)	154	(68.9)	94	(38.8)		
24	1-140-200120	13.5/135	58.3	0.8	18/18	25/25	30/30	13/21 (1.27)	1	2500	122/25	94.6 (27.19)	155	(70.3)	95	(70.3)	
30	1-140-200120	12.5/125	66	1	18/18	25/25	25/30	16/30 (1.52)	1	2500	122/25	94.6 (27.19)	166	(72.7)	118	(78.7)	
36	1-140-200250	16.7/167	79	1.4	23/23	30/30	35/35	21/42 (2.03)	1	3000	140/30	138	(39.7)	155	(67.5)	227	(87.3)
42	1-140-200120	17.9/179	112	1.9	29/29	30/30	40/40	21/42 (2.03)	1	3075	140/30	148	(41.53)	170	(68.02)	262	(95.6)
48	1-140-200120	16.9/169	139	1	29/29	30/35	45/45	21/42 (2.17)	1	3275	140/30	159	(44.64)	181	(65.2)	274	(95.3)
65	1-140-200120	21.4/214	135	2.8	30/30	30/35	50/50	21/42 (2.43)	2	3525	140/30	179	(50.16)	244	(111.8)	378	(111.8)

NEMA Energy Efficient Open standards equivalent to 11 Watt of standard line volt.

[1] Designates Metric Conversions

RELY ON RUUD™ 15

HEAT PUMP

RELY ON RUUD.™ 15