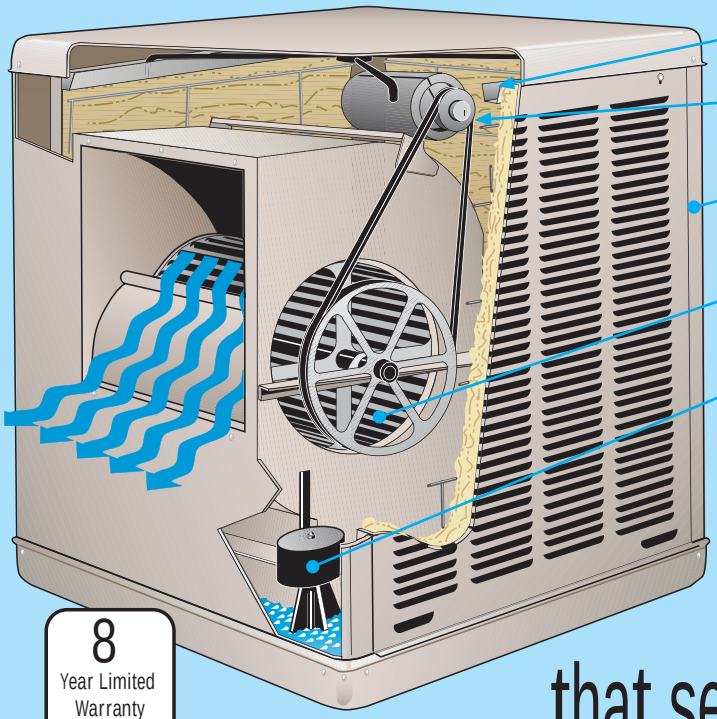
ESSICK N28W
Owner's Manual

-------- Manual continues below --------

It's our FEATURES



Water Trough - Adjustable for even water distribution

Motor - Water Resistant with thermal overload protection and permanently lubricated bearings*

Cabinet - Heavy gauge galvanized steel. Bolts together for easy access and rust/corrosion resistence

Blower - Machine balanced for smooth, quiet operation and maximum air delivery

Pump - Permanently lubricated bearings can run with or without water

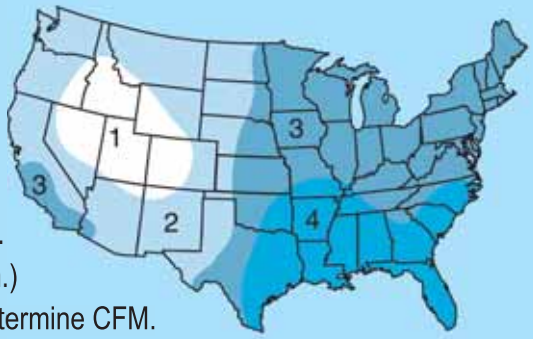
Built-in leveling leg - Window units include house legs for leveling and extra support

* Except for N28W unit

8 Year Limited Warranty on bottom pan against leakage due to rust-out.

that set our coolers above the rest

Selecting the right Essick cooler is EASY



1. Consult zone map to find correct size.
2. Consult table below to find correct "minutes per air change" for your zone.
3. Determine area to be cooled in cubic feet (building height x length x width.)
4. Divide cubic feet from step three by minutes per air change (step 2) to determine CFM.
5. Select correct Essick Cooler model in the specifications table according to CFM and expected static pressure.

Minutes Per Air Change

INTERIOR HEAT LOAD	EXTERIOR HEAT LOAD	ZONE 1	2	3	4
HIGH	EXPOSED	2	1.5	1.3	.7
HIGH	INSULATED	3	2	1.5	1
NORMAL	EXPOSED	3	2	1.5	1
NORMAL	INSULATED	4	3	2	1.3

IF CFM falls between models, choose the larger model.

Interior Heat Load: *High* means places with unusual heat sources from hot equipment or processes, crowded conditions, etc. *Normal* means no unusual heat sources - typical home or office.

Exterior Heat Load: *Exposed* means walls and/or roof exposed to sun, poor insulation, etc.

Insulated means walls and roof well insulated and/or shaded.

For Example:

A house in Phoenix AZ. is 40' long by 30' wide with 8' ceilings and has standard insulation with no unusual heat sources.

1. *Establish cubic feet: 30 x 40 x 8 = 9,600 cu. ft.*
2. *Determine Zone: Phoenix is in Zone 2*
3. *Use chart to discover Minutes Per Air Change: 3*
4. *Compute Cubic Feet per Minute (CFM): 9,600 ÷ 3 = 3,200 CFM*
5. *Review Specification Charts inside brochure to determine which unit meets the needs. In this example, the N43/48D with ½ h.p. motor is indicated (assuming a typical static pressure of 0.2).*

Essick Air Products ❖ 5800 Murray Street , Little Rock, AR. 72209 ❖ 800 643-8341 ❖ www.essickair.com

MADE IN USA!

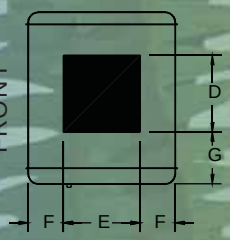
ADVANTAGES of Essick Air Evaporative Coolers

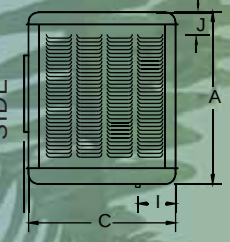
In this day of escalating energy costs and environmental concerns, the advantages of installing Evaporative Coolers grow every year.

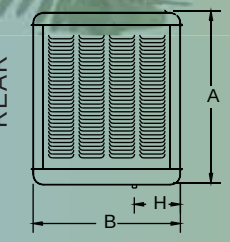
Our innovative engineering and quality workmanship ensures high efficiency performance, low maintenance, cost effectiveness and environmental responsibility.

DUCTED UNIT DIMENSION IDENTIFIER VIEWS

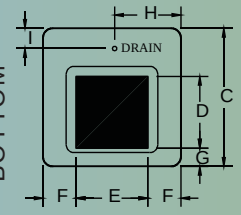
SIDE DISCHARGE

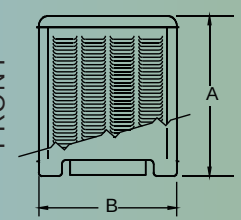


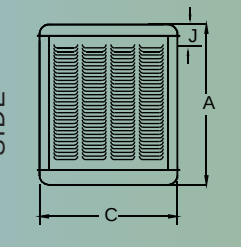




DOWN DISCHARGE







WINDOW UNIT DIMENSIONS (in Inches)

MODEL NO.	WEIGHT LBS		CABINET DIMENSIONS			DUCT OPENING (TUNNEL)			GRILLE DIMENSIONS		DRAIN OUTLET		WATER INLET
	SHP.	OPER.	A	B	C	D	E	F	G	H	I	J	K
N28W	75	105	27	24	17	11 25/32	22 1/8	13 9/16	21 3/4	14 7/8	5 1/2	5 7/8	4 1/2
N30W	90	135	29 1/4	31 1/2	15	13 11/16	21 3/8	13	21 3/4	14 7/8	7 1/4	15 3/4	5
RN35W	126	190	30 1/2	31 1/2	21	13 11/16	21 3/8	14 1/2	21 3/4	14 7/8	4	15 3/4	5
N37W	139	202	33 7/16	28 1/8	28 1/8	13 11/16	21 3/8	16 1/4	21 3/4	14 7/8	5	8 5/8	5 3/16
(R)N46W	168	246	34 1/2	34 1/8	34 1/8	13 11/16	21 3/8	16 1/4	21 3/4	14 7/8	25 3/8	23 1/2	5 3/16
(R)N50W	171	249	34 1/2	34 1/8	34 1/8	13 11/16	21 3/8	16 1/4	21 3/4	14 7/8	25 3/8	23 1/2	5 3/16

⇨ **Match letters on the Window Unit illustration at far right to dimensions in table above.**

SIDE DISCHARGE DIMENSIONS (in Inches)

MODEL NO.	WEIGHT LBS.		CABINET DIMENSIONS			DUCT OPENING			DRAIN OUTLET		WATER INLET	POWER INLET
	SHP.	OPER.	A	B	C	5	E	F	G	H	I	J
N30S	109	193	33 7/16	28 1/8	28 1/8	13 5/8	13 5/8	7 1/4	12 3/32	12 3/4	8 3/4	4 5/8
N40/N45S	150	269	34 1/2	34 1/8	34 1/8	17 3/4	17 3/4	8 3/16	12 1/16	10 21/32	8 3/4	4 5/8
N55/65S	202	357	42 7/16	39	39	19 3/4	19 3/4	9 5/8	16 21/32	15 21/32	8 3/4	4 5/8

⇦ Match letters on the Side Discharge illustration at top left to dimensions in table above.

DOWN DISCHARGE DIMENSIONS (in Inches)

MODEL NO.	WEIGHT LBS.		CABINET DIMENSIONS			DUCT OPENING			DRAIN OUTLET		WATER INLET	POWER INLET
	SHP.	OPER.	A	B	C	D	E	F	G	H	I	J
N31D	118	175	33 7/16	28 1/8	28 1/8	13 5/8	13 5/8	7 1/4	4 5/8	17 11/16	5 3/16	4 5/8
N43/48D	161	233	34 1/2	34	34	17 3/4	17 3/4	8 3/16	4 1/4	16 3/8	5	4 5/8
N56/66D	220	309	42 7/16	39	39	19 3/4	19 3/4	9 5/8	4 1/4	25 3/8	5 1/2	4 5/8

⇦ Match letters on the Down Discharge illustration at left to dimensions in table above.