# **700 POOL** Commercial Pool Heat Recovery Ventilator

## **ENGINEERING DATA**

#### PATENTED HEAT RECOVERY ALUMINUM CORES

Modular (2 section) patented aluminum heat recovery cores arranged for efficient counter-flow ventilation.

#### **MOTORS AND BLOWERS**

Two PSC, 3 speed single shafted motors. 120 VAC, 4.5 Amps each (9 Amps total on high speed). 1/4 HP, 1450 RPM. 1032 Watts on high speed. MCA: 22.5 MOP: 15.

Motors slide easily in / out of unit. Centrifugal type blowers, rated at 700 cfm (329 L/s) free air delivery.

#### CASE

100-700 Pool (0921)

Unit has front and back access doors. Electrical panel can be switched to either front or back, giving installer flexibility in duct direction. 20 gauge prepainted galvanized steel (G60) for superior corrosion resistance. Insulated with elastomeric insulation. Drain connections: two-1/2" (12mm) 0.D.

Airflows (Each Air Stream)

### FILTERS

Washable MERV6 air filters in exhaust and supply airstreams. MERV8 or MERV13 options available.

#### MOUNTING

Unit to be set on support brackets hung by threaded rod type apparatus (brackets and rod not provided), or placed on vibrations isolation pads.

#### DEFROST

Supply bypass routes indoor air to defrost core.

#### **ELECTRONICS**

Integrated microprocessor circuit board. Built-in interlock contacts.

#### **CONTROL OPTIONS**

99-BC02 Basic Control, 99-500 3 Speed Control, 99-DET01 20/40/60 Minute Timer, or 99-DET02 Wireless Timer (99-RX02 Repeater also available to extend range between wireless timer [DET02] and the main control).

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#### Temperature Effectiveness

WEIGHT: 900 (425) Effectiveness 70% 260 LBS (118 KG) 800 (378) Airflow CFM (L/s) 600 700 (329) High Speed SHIPPING WEIGHT: 50% 600 (282) Med Speed Note: Exhaust Relative Humidity (RH) at 40% 310 LBS (140.6 KG) 500 (235) Low Speed 300 400 500 600 700 400 (190) (143) (190) (235) (282) (329) 300 (143) Airflow CFM (L/s) NOTE: Front clearance of 25 in. (635 mm) is 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 (75) (100) (125) (150) (175) (200) (225) (250) 0.1 (25) 0.2 (50) 21001 HRAI recommended for servicing unit. 9001 External Static Pressure in. w.g. (Pa) us CERTIFIED DIMENSIONS . . . . . . . . . . . . . . . . . . FRONT VIEW SUPPLY AIR FROM OUTSIDE **Discharge Side** Inlet Side Defrost Damper Airflow: EXHAUST AIR **1**4 in. 0 o 14 in POOL AND DEFROST AIR (356 mm) (356 mm) 0 0 Stale Air to Outside mm) 7 /12 in. 7 /12 in. (189 mm) Fresh Air from Outside E B 6 1/2 in. (166 mm) (189 mm MOTOR (819) ø Stale Air from Inside 9 1/2 in. (241 mm) Fresh Air to Inside Filters 1/4 in. SUPPLY AIR TO BUILDING 8 in. (200 mm) EXHAUST AIR FROM POOL 2 8 in. (200 mm) 8 in (200 mm) 4 1/2 in Core , (115 mm) 29 in. (737 mm) 29 in. (737 mm) 33 1/4 in. (845 mm)

Date:		ontractor: WARRANTY Units carry a 15 year warranty on the
Tag:		ipplier: HRV core and a 2 year replacement parts warranty.
Project:	Qty:	uote# :All units conform to CSA and UL standards
Engineer:		ibmitted By:
Control:		mer: Timer Qty: <i>LIFEBREATH</i> *

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