



HRV 700SDD/700SFD HEAT RECOVERY VENTILATOR

PRODUCT
SPECIFICATIONS
AND ENGINEERING
INFORMATION

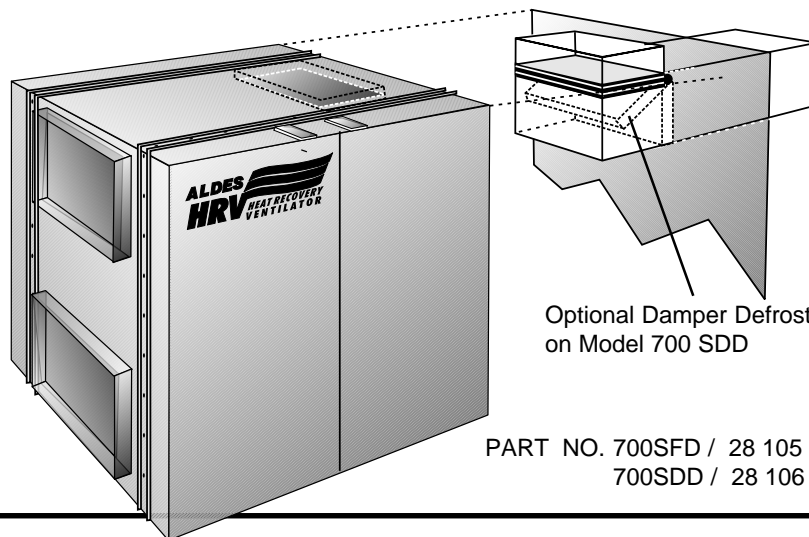
SUBMITTAL DATA
496 - 4-03

ALDES Model HRV 700SFD or 700SDD is a compact heat recovery ventilator designed to exhaust stale indoor air and supply fresh air from outdoors. It is intended for small commercial and institutional applications, such as office buildings, classrooms, dormitories, restaurants, health clubs, etc.

It is a technically advanced controlled mechanical ventilation system to meet the requirements of modern, tightly built and highly insulated buildings. It provides a consistent supply of fresh air while lowering heating costs during the winter by transferring heat from the exhaust air to the fresh air stream. During the summer it also reduces the load on the air conditioner by lowering the temperature of the fresh outdoor air. The system provides an economical solution for excessive indoor humidity, odors, stuffiness, and other indoor air pollutants.

As the two air streams pass through the HRV, they are separated by thin plates of aluminum in the core. The air streams do not mix, so there is no recontamination of the fresh air by stale air. Heat passes through the thermally conductive aluminum from the warmer air stream to the colder air stream, recovering most of the energy otherwise lost to the outdoors.

ALDES HRV 700SDD and 700SFD Heat Recovery Ventilator



The Model 700 is available with two defrost options. The Model 700SFD begins the defrost cycle at temperatures below 23 °F (-5 °C) by shutting off the supply fan for 4-1/2 minutes, then resumes normal operation for 17 minutes, repeating the cycle until

temperatures rise above 23 °F. The Model 700SDD blocks outside air during defrost and draws indoor air through the supply (with the same temperature and defrost time schedule as the fan defrost system).

GENERAL FEATURES

Thermally conductive aluminum heat exchange core, cross-flow design, easily removed for cleaning or service.

Insulated 20 gauge powder coated galvanized steel cabinet.

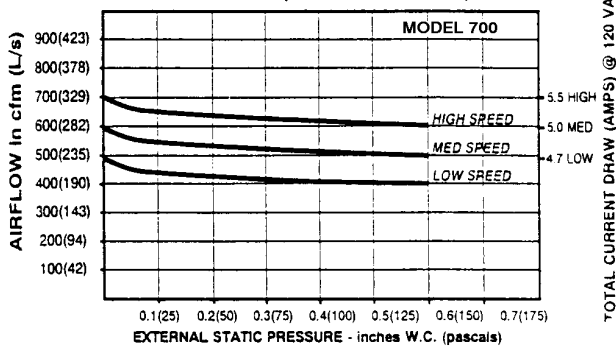
Direct drive centrifugal forward curve blowers, Multi-speed providing 400 to 650 cfm. one in each air stream.

Two efficient three speed PSC double shafted motors 120 V, 2.75 Amps each (5.5 Amps total on high speed), 1 ph. 1/10 HP, 1625 RPM. Watts - total on high speed - 648.

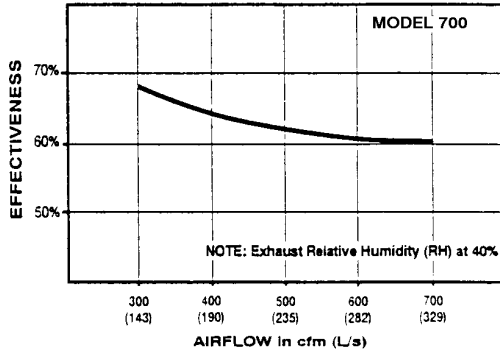
Washable filters, one in each air stream protect the core. Easy to access and clean.

Installation accessories and controls make installation simple.

PERFORMANCE AIRFLOWS (Each Air Stream)



TEMPERATURE EFFECTIVENESS



OPTIONS AND ACCESSORIES

- 28 998: 60 MIN. REMOTE TIMER (2 Wire)**
- 28 882 DEHUMIDISTAT** - Activates high speed when indoor humidity rises above set point on control (2 Wire)

Note: Manufacturer reserves the right to change specifications without notice.

WARRANTY
Units carry a 15 year warranty on the heat recovery core and a 2 year replacement parts warranty.

All units conform to CSA and UL Standards

SPECIFICATIONS

General: Unit shall be completely wired and includes blowers, filters, heat exchange cores and control panel.

Cabinet: 29 5/8" x 28 3/4" x by 24 5/8" H. Constructed of 20 gauge satin white powder coated galvanized steel (G60) for superior corrosion resistance. Insulated with foil faced fiberglass duct liner to prevent condensation.

Heat Exchange Core: Two modules, aluminum plate heat exchange core assembly held in stainless steel frame.

Air filter: Four washable filters.

Motors: Two efficient three speed PSC double shafted motors 120 V, 2.75 Amps each (5.5 Amps total on high speed), 1 ph. 1/10 HP, 1625 RPM. Watts - total on high speed - 648.

Blowers: Centrifugal type rated at 700 CFM (329 L/s) free air delivery. Each air stream has one double shafted motor driving a centrifugal blower. Rubber isolated mounts.

Controls: Illuminated power switch, 3 speed blower control, low voltage (24 VAC) terminals for connection of remote controls and defrost light indicating automatic operation.

Defrost: Model 700SDD: Supply bypass routes indoor air to defrost core.

Model 700SFD: Supply fan shuts off while exhaust continues to defrost core. (Defrost light indicates defrost mode - Preset 27° F (-3°C)).

Duct Connections: Four 14" X 8" (356mm X 200mm). Model 700SDD has fifth 14" x 8" duct connection on top surface.

Drain Connections: Two 1/2" O.D.

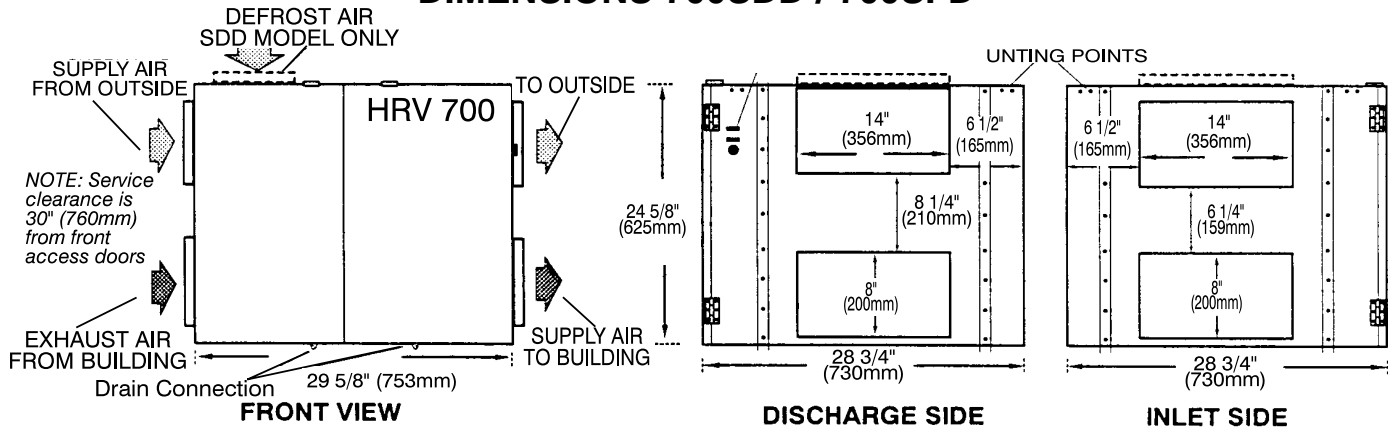
Mounting: Unit to be set in support brackets hung by threaded rod type apparatus. (Brackets and rod not provided).

Weight: 142 lbs (64.4 Kg)

Shipping Weight: 167 lbs (75.8 Kg)

Manufacturer: American ALDES Ventilation Corp.
4537 Northgate Court, Sarasota, FL 34234

DIMENSIONS 700SDD / 700SFD



BY MATHEWS GRAPHIC DESIGN

PROJECT

DATE

SUBMITTED BY

CONTRACTOR

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VENTILATION CORPORATION



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496HRV4-03



HRV 700SDD/700SFD PLUS HEAT RECOVERY VENTILATOR

PRODUCT
SPECIFICATIONS
AND ENGINEERING
INFORMATION

SPECIFICATIONS

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

MOTORS - Two PSC, 3 speed single shafted, 120 VAC, 4.5 Amps each (9 total on high speed). HP - 1/4, 1450 RPM. Watts - total on high speed - 1032.

FILTERS - Washable air filters in exhaust and supply air streams.

BLOWERS - Centrifugal type rated at 329 L/s (700 CFM) free air delivery. Each air stream has one single shafted motor driving a centrifugal blower.

CONNECTION DUCT SIZES - Four - 14" x 8" (356 mm x 200 mm).

MOUNTING - Unit to be set on support brackets hung by threaded rod type apparatus (brackets and rods not provided).

CASE - 20 gauge prepainted galvanized steel (G60) for superior corrosion resistance. Insulated with foil faced insulation where required to prevent exterior condensation. Drain connections, 2 - 1/2" (12 mm) O.D.

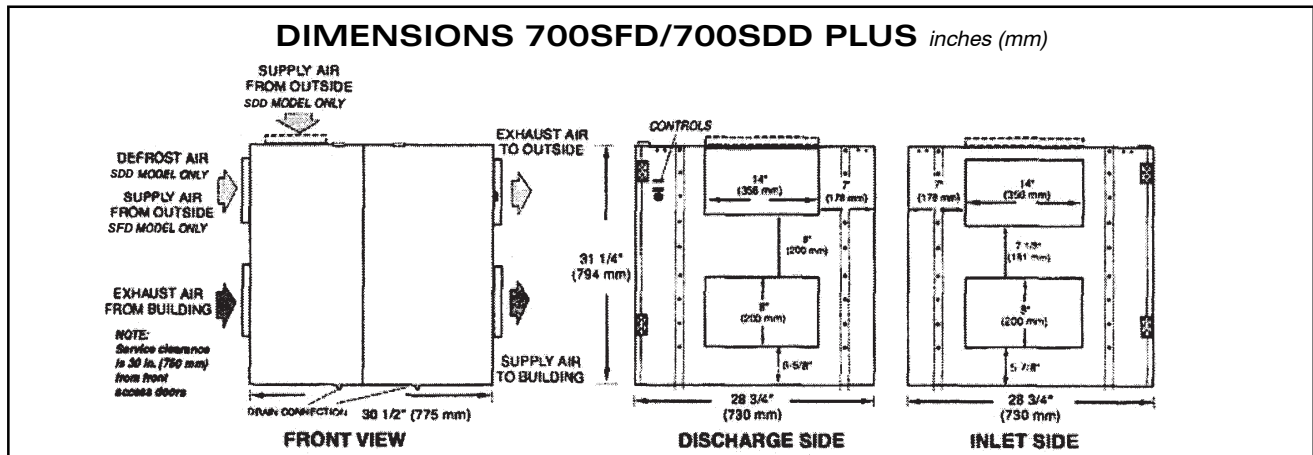
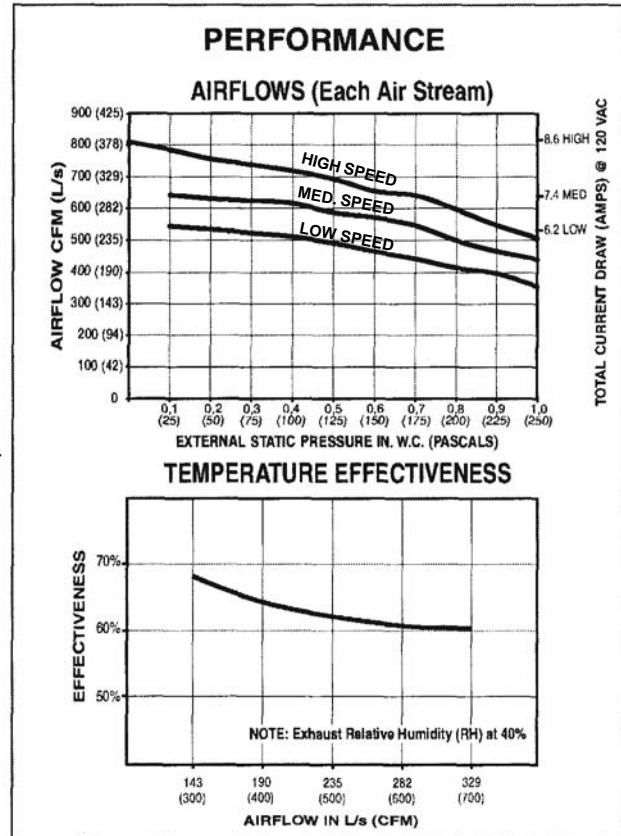
CONTROLS & FUNCTION - Integrated microprocessor circuit board. Built-in interlock contacts. Automatic Self Test. Optional remote speed control.

DEFROST CONTROLS

Model **700SFD PLUS** - Interrupts supply air while exhaust air defrosts core.

Model **700SDD PLUS** - Supply bypass routes indoor air to defrost core.

WEIGHT - 155 lbs. (70 kg) **SHIPPING WEIGHT** - 180 lbs. (81.4 kg)



OPTIONS

- 28 998 **Sixty Minute Timer** (2 Wire)
- 28 883 **Dehumidistat Ventilation Control (DVC)** Remote dehumidistat and on/off control (3 Wire)
- 28 882 **Dehumidistat Control** - Remote Wall Mount, Low Voltage 20-80% RH (2 Wire)
- 28 885 **3 Speed Control** (4 Wire)

All units conform to CSA and UL standards.

WARRANTY

Units carry a 15 year warranty on the heat recovery core and a 2 year replacement parts warranty.



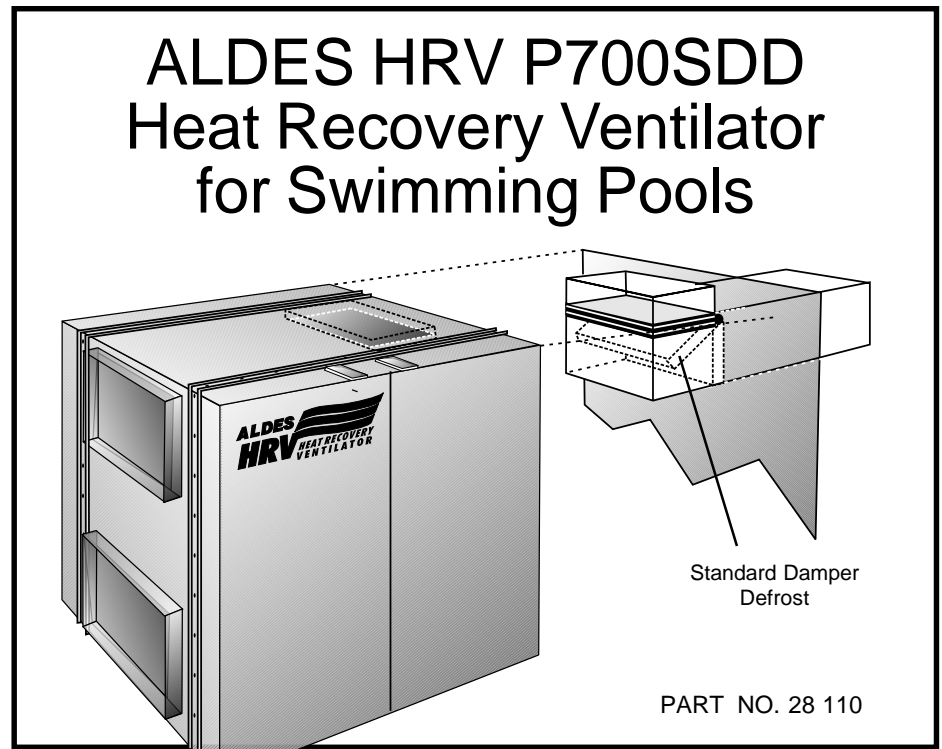
HRV P700SDD HEAT RECOVERY VENTILATOR POOL MODEL

PRODUCT
SPECIFICATIONS
AND ENGINEERING
INFORMATION
SUBMITTAL DATA
497HRV70-4-03

ALDES Pool Model Heat Recover Ventilators are designed to exhaust humid air from indoor swimming pools and spa area and to supply tempered fresh air from outdoors. It incorporates an efficient aluminum core for heat recovery of waste heat to temper the fresh outdoor air, to provide an economical solution to excessive humidity, odor, stuffiness, and other indoor air pollutants. The model P700SDD is intended for small commercial, institutional, and residential applications for pool and wetted deck areas up to 700 square feet.

The pool model has three modes of operation to meet the unique needs of pools. The normal ventilation mode provides exhaust of humid air and supply of fresh outdoor air, with heat recovery in the efficient aluminum cores. This mode is controlled by an adjustable dehumidistat that opens the fresh air damper to the outdoor air intake, and operates both the supply and exhaust fans. (A duct heater or hot water coil may be installed in the supply duct to provide additional heat to the incoming air or recirculating air. This heater would be controlled by a duct mounted thermostat.)

The second mode of operation occurs when the humidity level falls below the setpoint of the dehumidistat. The exhaust fan shuts off, the supply air damper closes off outdoor air, and opens



the recirculation air circuit. This mode maintains constant air circulation in the conditioned space, and a means of heating the conditioned space if a duct heater or hot water coil is installed in the supply duct.

The third mode of operation provides automatic defrost by shutting off fresh air intake in a cycle of 4.5 minutes off, 17 minutes on. The defrost cycle occurs when outdoor temperatures are below 27°F (-3°C)

GENERAL FEATURES

Thermally conductive aluminum heat exchange core, cross-flow design, easily removed for cleaning or service.

Insulated 20 gauge white powder coated galvanized steel cabinet.

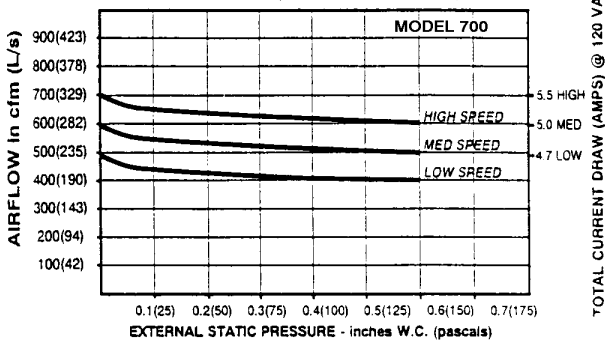
Direct drive centrifugal forward curve blowers, Multi-speed providing 400 to 650 cfm. one in each air stream.

Two efficient three speed PSC double shafted motors 120 V, 2.75 Amps each (5.5 Amps total on high speed), 1 ph. 1/10 HP, 1625 RPM. Watts - total on high speed - 648

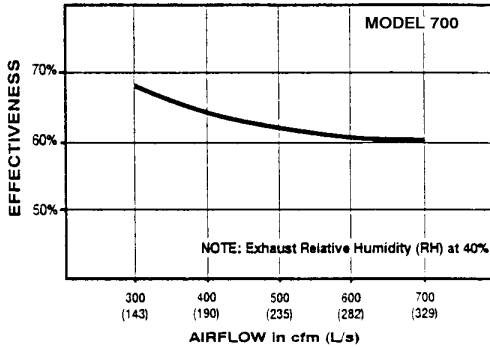
Washable filters, one in each air stream protect the core. Easy to access and clean.

Installation accessories and controls make installation simple.

PERFORMANCE AIRFLOWS (Each Air Stream)



TEMPERATURE EFFECTIVENESS



OPTIONS AND ACCESSORIES

28 998: 60 MIN. REMOTE TIMER

28 882 DEHUMIDISTAT - Activates high speed when indoor humidity rises above set point on control

Note: Manufacturer reserves the right to change specifications without notice.

WARRANTY
Units carry a 15 year warranty on the heat recovery core and a 2 year replacement parts warranty.

All units conform to CSA and UL Standards

SPECIFICATIONS

General: Unit shall be completely wired and includes blowers, filters, heat exchange cores and control panel.

Cabinet: 29 5/8" x 28 3/4" x by 24 5/8" H (753 x 730 x 625 mmH). Constructed of 20 gauge prepainted galvanized steel (G60). Interior lined with foil faced Insulation where surface is exposed to cold air. Access door is hinged and latch. Disconnect switch engaged by door panel. Condensate pan has drain connections.

Heat Exchange Core: Two modules, aluminum plate heat exchange core assembly.

Air filter: Four washable filters.

Motors: Two efficient three speed PSC double shafted motors 120 VAC, 2.75 Amps each (5.5 Amps total on high speed), 1/10 HP, 1625 RPM. Watts - total on high speed - 648.

Blowers: Centrifugal type rated at 700 CFM (329 L/s) free air delivery. Each air stream has one double shafted motor driving a centrifugal blower. Rubber isolated mounts.

Controls: Illuminated power switch, 3 speed blower control, low voltage (24 VAC) terminals for connection of remote controls and defrost light indicating automatic operation.

Defrost: Pool and Defrost air bypass routes air to defrost core. Light indicates when automatic damper defrost occurs (preset at 27°F (-3°C)).

Duct Connections: Five 14" X 8" (356mm X 200mm H).

Drain Connections: Two 1/2" O.D.

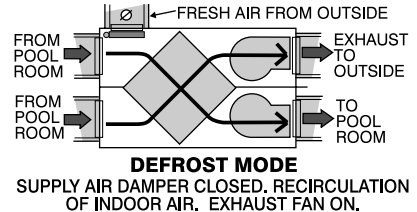
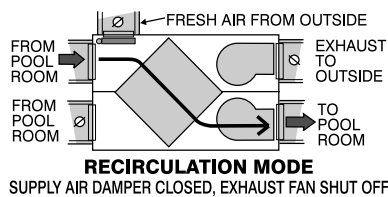
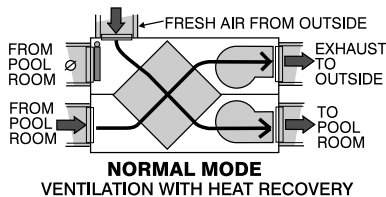
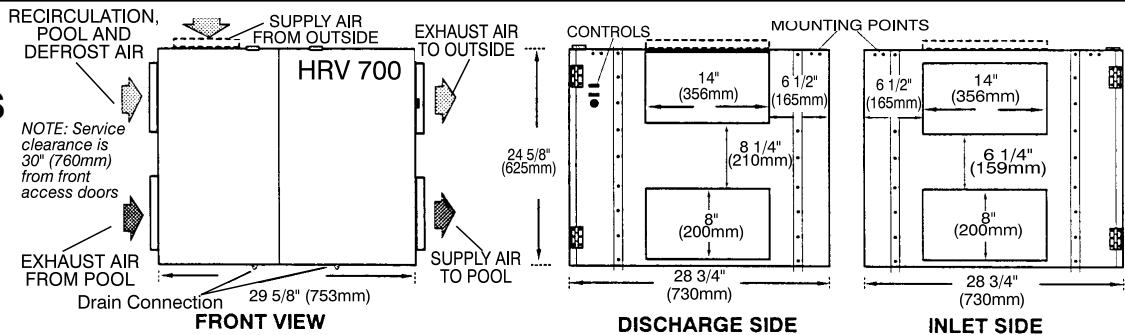
Mounting: Unit to be set in support brackets hung by threaded rod type apparatus. (Brackets and rod not provided).

Weight: 142 lbs (64.4 kg)

Shipping Weight: 167 lbs (75.8 kg)

Manufacturer: American ALDES Ventilation Corp.
4537 Northgate Court, Sarasota, FL 34234

DIMENSIONS P700SDD



PROJECT

DATE

SUBMITTED BY

CONTRACTOR

**AMERICAN
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497HVP70.4-3



HRV 850DFD/850DDD HEAT RECOVERY VENTILATOR

PRODUCT
SPECIFICATIONS
AND ENGINEERING
INFORMATION

SUBMITTAL DATA
378-850-4-03

ALDES Model HRV 850DFD, 850DDD is a compact heat recovery ventilator designed to exhaust stale indoor air and supply fresh air from outdoors. It is intended for small commercial and institutional applications, such as office buildings, classrooms, dormitories, restaurants, health clubs, etc.

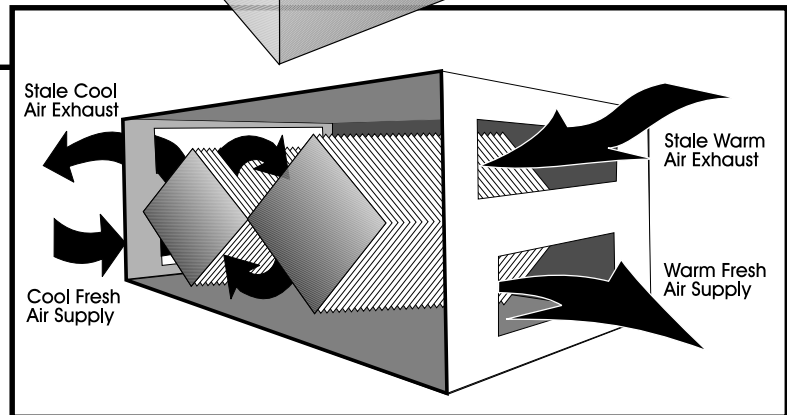
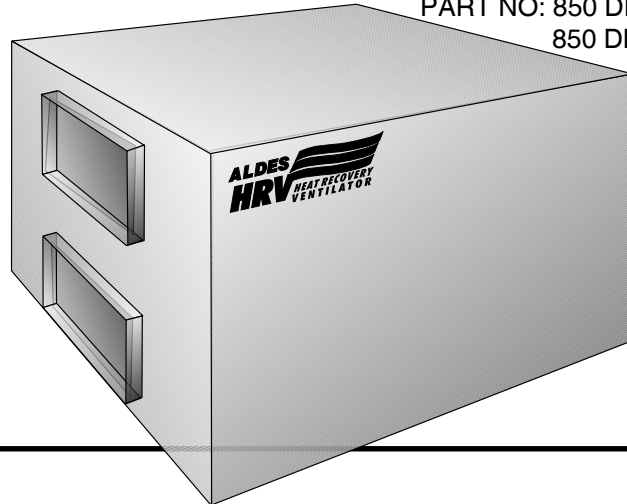
It is a technically advanced controlled mechanical ventilation system designed to meet the requirements of modern, tightly built and highly insulated buildings. It provides a consistent supply of fresh air while lowering heating costs during the winter by transferring heat from the exhaust air to the fresh air stream. During the summer it also reduces the load on the air conditioner by lowering the temperature of the fresh outdoor air. *(For southern climates, where air conditioning costs are the major concern, it can be provided with an enthalpy core, on special order, to reduce the humidity of the fresh air as well as lower the temperature.)* The system provides an economical solution for excessive indoor humidity, odors, stuffiness, and other indoor air pollutants.

As the two air streams pass through the HRV, they are separated by thin plates of aluminum in the core. The air streams do not mix, so there is no recontamination of the fresh air by stale air. Heat passes through the thermally conductive aluminum from the warmer air stream to the colder air stream, recovering most of the energy otherwise lost to the outdoors.

Equally important to providing air change from outdoors to indoors is a means of distributing the fresh air to all parts of the building, through a ducting system. Often, the ducting of a central forced air system can be used.

ALDES HRV 850DFD and 850DDD Heat Recovery Ventilator

PART NO: 850 DFD / 28 107
850 DDD / 28 108



GENERAL FEATURES

Thermally conductive aluminum heat exchange core, cross-flow design, easily removed for cleaning or service.

Two efficient three speed PSC motors drive dual centrifugal blowers. 120 V. 3.95 Amps each (7.9 Amps total on high speed), 1/4 HP, 1625 RPM, 848 Watts (total) on high speed

Washable filters on each air stream protect the core. Easy to access and clean.

Defrost: Model 850DFD Interrupts supply air while exhaust air defrosts core.

Model 850DDD Recirculating defrost. Internal damper closes fresh air intake and draws indoor air through heat exchange cores.

Both models: Defrost light indicates when defrost cycle operates (at temperatures below 27 °F (-3 °C)).

Installation accessories and controls make installation simple.

SPECIFICATIONS

General: Unit shall be completely wired and includes blowers, filters, heat exchange cores and control panel.

Cabinet: 46 3/4 x 41 1/2" by 24 5/8" H (1088 x 1055 x 625 mm H). Constructed of 20 gauge prepainted galvanized steel (G60). Interior lined with foil faced insulation where surface is exposed to cold air. Access door is hinged and latched. Disconnect switch engaged by door panel. Condensate pan has drain connection— One 1/2" (12 mm) O.D.

Heat Exchange: Two triple core aluminum plate heat exchange cores held in stainless steel frame, arranged in series for highly efficient counter flow performance.

Air filter: Six washable filters.

Blower: Four centrifugal type forward curve blowers with two direct drive PSC motors and rubber isolated mounts. Three speed motors (120VAC/60 Hz/1 ph).

Controls: Illuminated power switch, three speed blower control, low voltage (24 VAC) terminals for connection of remote controls, and defrost light indicating automatic operation.

Defrost: Supply bypass damper directs indoor air to defrost core. Defrost light indicates when automatic damper defrost occurs (preset 27°F (-3 °C)).

Operating Controls (Options):

28998 Sixty Minute Timer (2 wire)

28882 Remote dehumidistat, SPST, 20-80% RH, low voltage, wall mount.

Capacities: ALDES Model HRV 850DFD, 850DDD

Air Flow 850 cfm (401 L/s)

Ext. Static Pressure 0.3 " wg (75 Pa.)

Maximum Temperature Recovery 80%

Duct Connections: Three 20"x8" H (508 x 200 mm H).

Stale air intake: 26" x 8" (660mm x 200 mm H).

Model 850DDD has extra 20" x 8" (508 x 200mm) defrost port.

Mounting: Unit to be set on support brackets hung by threaded rods. (Brackets and rods not included.)

Weight: 255 lbs (116kg) Shipping Weight: 280 lbs (127 kg)

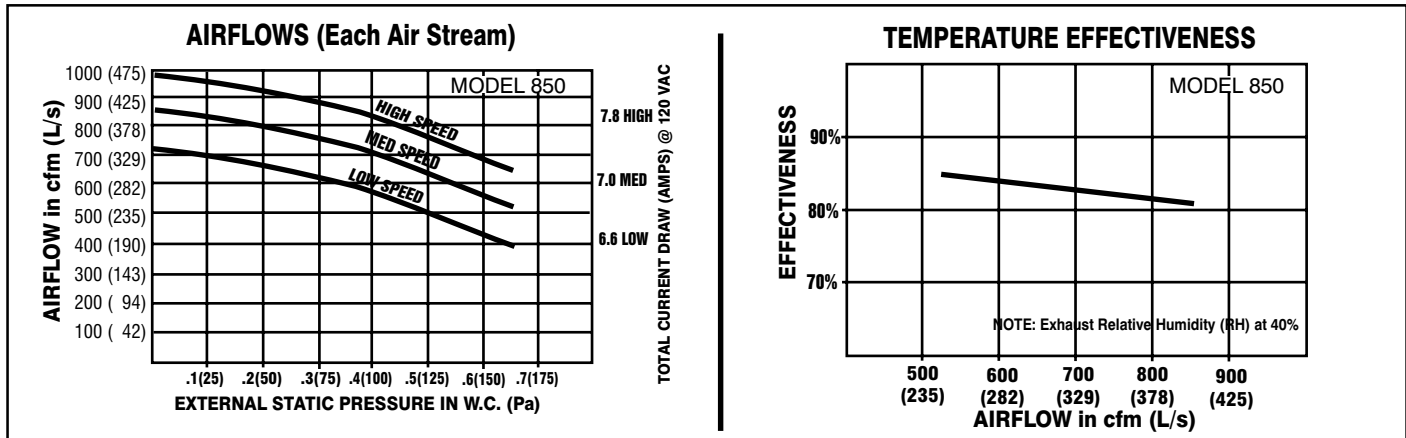
Manufacturer:

American ALDES Ventilation Corp.

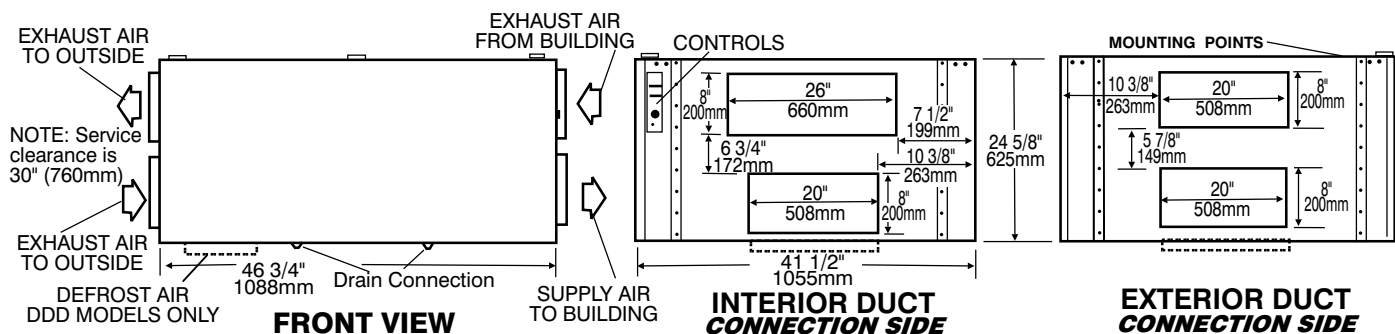
4537 Northgate Court, Sarasota, FL 34234

Warranty: 15 year warranty on heat exchange core. Two year parts warranty.

PERFORMANCE



DIMENSIONS



PROJECT	DATE	SUBMITTED BY	CONTRACTOR
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HRV 1200SDD/1200SFD HEAT RECOVERY VENTILATOR

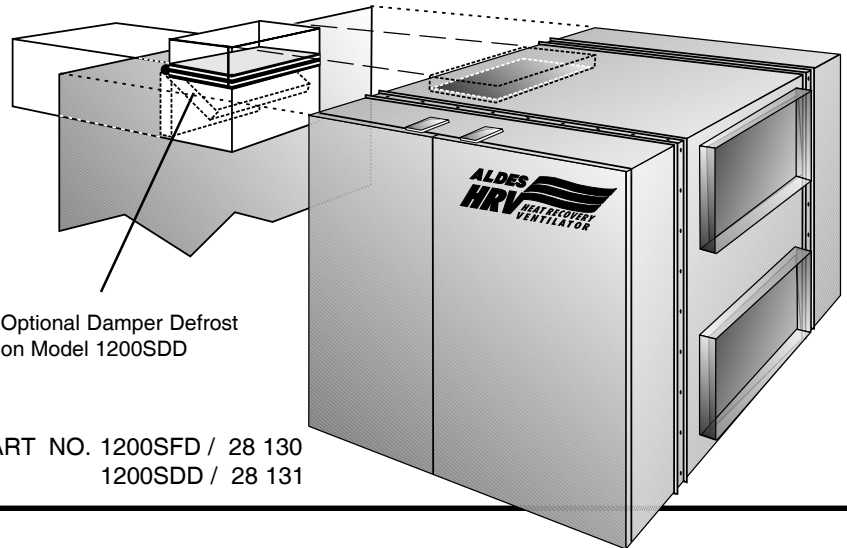
PRODUCT
SPECIFICATIONS
AND ENGINEERING
INFORMATION
SUBMITTAL DATA
458 - 04-03

ALDES Model HRV 1200SFD or 1200SDD is a compact heat recovery ventilator designed to exhaust stale indoor air and supply fresh air from outdoors. It is intended for small commercial and institutional applications, such as office buildings, classrooms, dormitories, restaurants, health clubs, etc.

It is a technically advanced controlled mechanical ventilation system to meet the requirements of modern, tightly built and highly insulated buildings. It provides a consistent supply of fresh air while lowering heating costs during the winter by transferring heat from the exhaust air to the fresh air stream. During the summer it also reduces the load on the air conditioner by lowering the temperature of the fresh outdoor air. The system provides an economical solution for excessive indoor humidity, odors, stuffiness, and other indoor air pollutants.

As the two air streams pass through the HRV, they are separated by thin plates of aluminum in the core. The air streams do not mix, so there is no recontamination of the fresh air by stale air. Heat passes through the thermally conductive aluminum from the warmer air stream to the colder air stream, recovering most of the energy otherwise lost to the outdoors.

ALDES HRV 1200SDD and 1200SFD Heat Recovery Ventilator



The Model 1200 is available with two defrost options. The Model 1200SFD begins the defrost cycle at temperatures below 23 °F (-5 °C) by shutting off the supply fan for 4-1/2 minutes, then resumes normal operation for 17 minutes, repeating

the cycle until temperatures rise above 23 °F. The Model 1200SDD blocks outside air during defrost and draws indoor air through the supply (with the same temperature and defrost time schedule as the fan defrost system).

GENERAL FEATURES

Thermally conductive aluminum heat exchange core, cross-flow design, easily removed for cleaning or service.

Insulated 20 gauge powder coated galvanized steel cabinet.

Direct drive centrifugal forward curve blowers, Multi-speed providing 600 to 1100 cfm. one in each air stream.

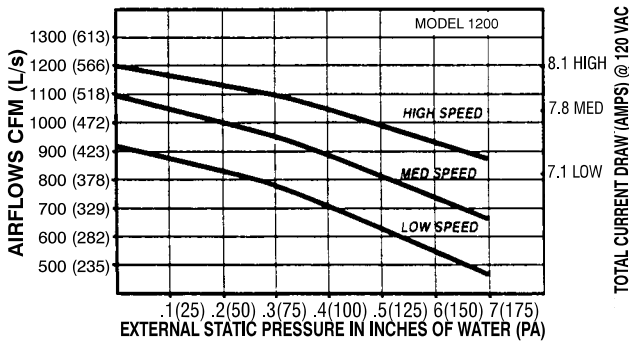
Two efficient three speed PSC double shafted motors 120 V, 4 Amps each (8.1 Amps total on high speed), 1 ph. 1/4HP, 1625 RPM. Watts - total on high speed - 972.

Washable filters, one in each air stream protect the core. Easy to access and clean.

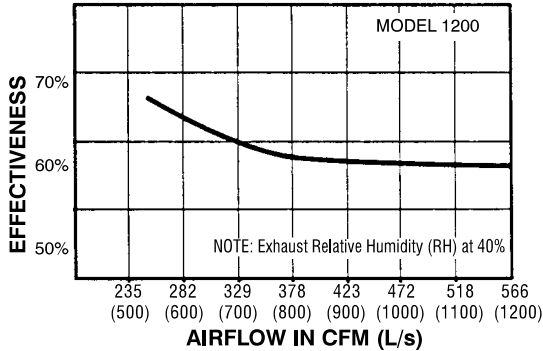
Installation accessories and controls make installation simple.

PERFORMANCE

AIRFLOWS (Each Air Stream)



TEMPERATURE EFFECTIVENESS



OPTIONS AND ACCESSORIES

28 998: 60 MIN. REMOTE TIMER

28 882 DEHUMIDISTAT - Activates high speed when indoor humidity rises above set point on control

Note: Manufacturer reserves the right to change specifications without notice.

WARRANTY
Units carry a 15 year warranty on the heat recovery core and a 2 year replacement parts warranty.

All units conform to CSA and UL Standards

SPECIFICATIONS

General: Unit shall be completely wired and includes blowers, filters, heat exchange cores and control panel.

Cabinet: 29⁷/₈" x 41¹/₂" x by 24⁵/₈" H. Constructed of 20 gauge satin white powder coated galvanized steel (G60) for superior corrosion resistance. Insulated with foil faced fiberglass duct liner to prevent condensation.

Heat Exchange Core: Three modules, aluminum plate heat exchange core assembly held in stainless steel frame.

Air filter: Six washable filters.

Motors: Two efficient three speed PSC double shafted motors 120 V, 4 Amps each (8.1 Amps total on high speed), 1 ph. 1/4 HP, 1625 RPM. Watts - total on high speed - 972.

Blowers: Centrifugal type rated at 1200 CFM (566 L/s) free air delivery. Each air stream has one double shafted motor driving a centrifugal blower. Rubber isolated mounts.

Controls: Illuminated power switch, 3 speed blower control, low voltage (24 VAC) terminals for connection of remote controls and defrost light indicating automatic operation.

Defrost: Model 1200SDD: Supply bypass routes indoor air to defrost core.

Model 1200SFD: Supply fan shuts off while exhaust continues to defrost core. (Defrost light indicates defrost mode - Preset 27° F (-3°C)).

Duct Connections: Four 20" X 8" (508mm X 200mm). Model 1200SDD has fifth 20" x 8" duct connection on top surface.

Drain Connections: Two 1/2" O.D.

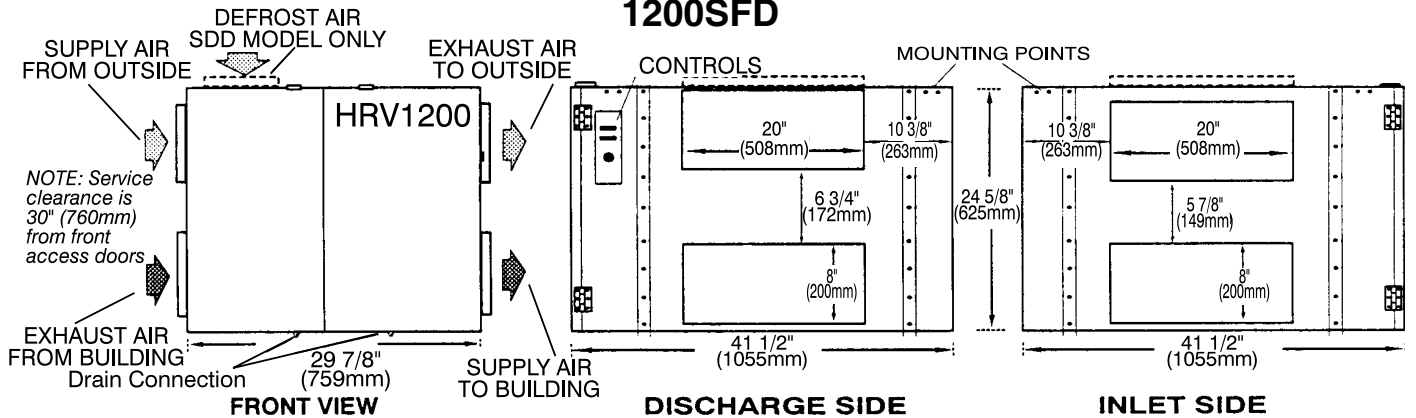
Mounting: Unit to be set in support brackets hung by threaded rod type apparatus. (Brackets and rod not provided).

Weight: 191 lbs (87Kg)

Shipping Weight: 215 lbs (98Kg)

Manufacturer: American ALDES Ventilation Corp.
4537 Northgate Court, Sarasota, FL 34234

DIMENSIONS 1200SDD / 1200SFD



BY MATHEWS GRAPHIC DESIGN

PROJECT	DATE	SUBMITTED BY	CONTRACTOR
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ALDES



HRV 1200SFD/1200SDD PLUS HEAT RECOVERY VENTILATOR

PRODUCT SPECIFICATIONS AND ENGINEERING INFORMATION

SPECIFICATIONS

CORES - Modular (3 section) patented aluminum heat recovery cores arranged for efficient cross-flow ventilation.

MOTORS - Two PSC, 3 speed double shafted, 120 VAC, 9.4 Amps each (18.8 total on high speed). HP - 1/2, 1625 RPM. Watts - total on high speed - 2256.

FILTERS - Washable air filters in exhaust and supply air streams.

BLOWERS - Centrifugal type rated at 1200 cfm (566 L/s) free air delivery. Each air stream has one double shafted motor driving 2 centrifugal blowers.

CONNECTION DUCT SIZES - Four - 20" x 8" (508 mm x 200 mm).

MOUNTING - Unit to be set on support brackets hung by threaded rod type apparatus (brackets and rods not provided).

CASE - 20 gauge prepainted galvanized steel (G60) for superior corrosion resistance. Insulated with foil faced insulation where required to prevent exterior condensation. Drain connections, 2 - 1/2" (12 mm) O.D.

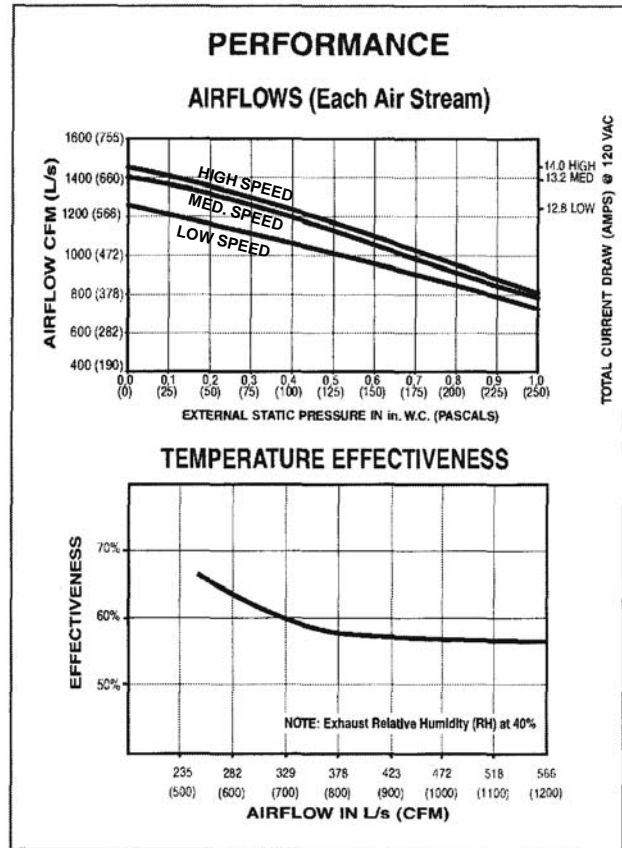
CONTROLS & FUNCTION - Integrated microprocessor circuit board. Built-in interlock contacts. Automatic Self Test. Optional remote speed control.

DEFROST CONTROLS

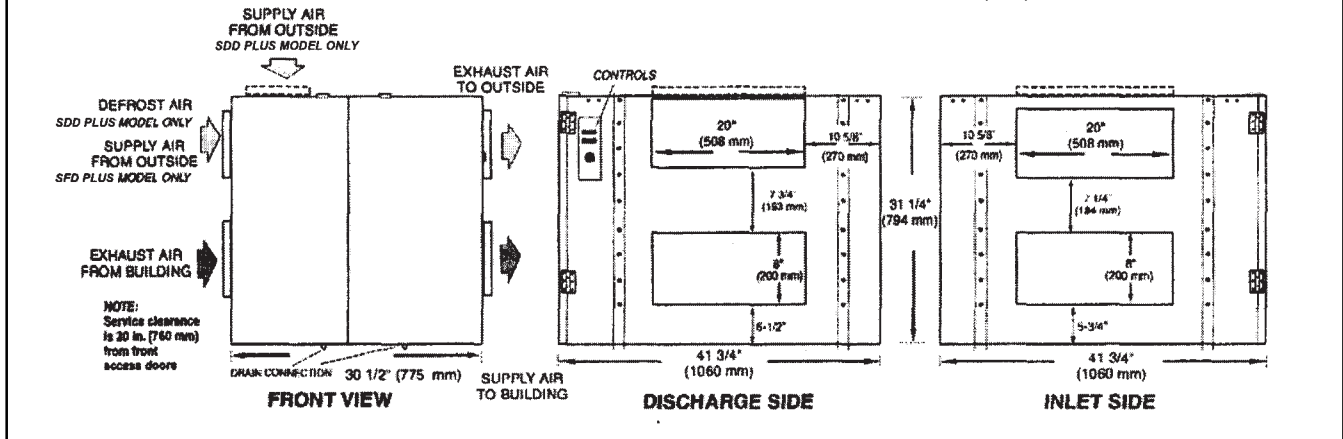
Model 1200SFD PLUS - Interrupts supply air while exhaust air defrosts core.

Model 1200SDD PLUS - Supply bypass routes indoor air to defrost core.

WEIGHT - 210 lbs. (95 kg) **SHIPPING WEIGHT** - 234 lbs. (106 kg)



DIMENSIONS 1200SFD/SDD PLUS inches (mm)



OPTIONS

- 28 998 Sixty Minute Timer (2 Wire)
- 28 879 Digital Electronic Timer - 20, 40, 60 Minute (3 Wire)
- 28 883 Dehumidistat Ventilation Control (DVC) Remote dehumidistat and on/off control (3 Wire)
- 28 882 Dehumidistat Control - Remote Wall Mount, Low Voltage 20-80% RH (2 Wire)
- 28 885 3 Speed Control (4 Wire)

WARRANTY

Units carry a 15 year warranty on the heat recovery core and a 2 year replacement parts warranty.

All units conform to CSA and UL standards.



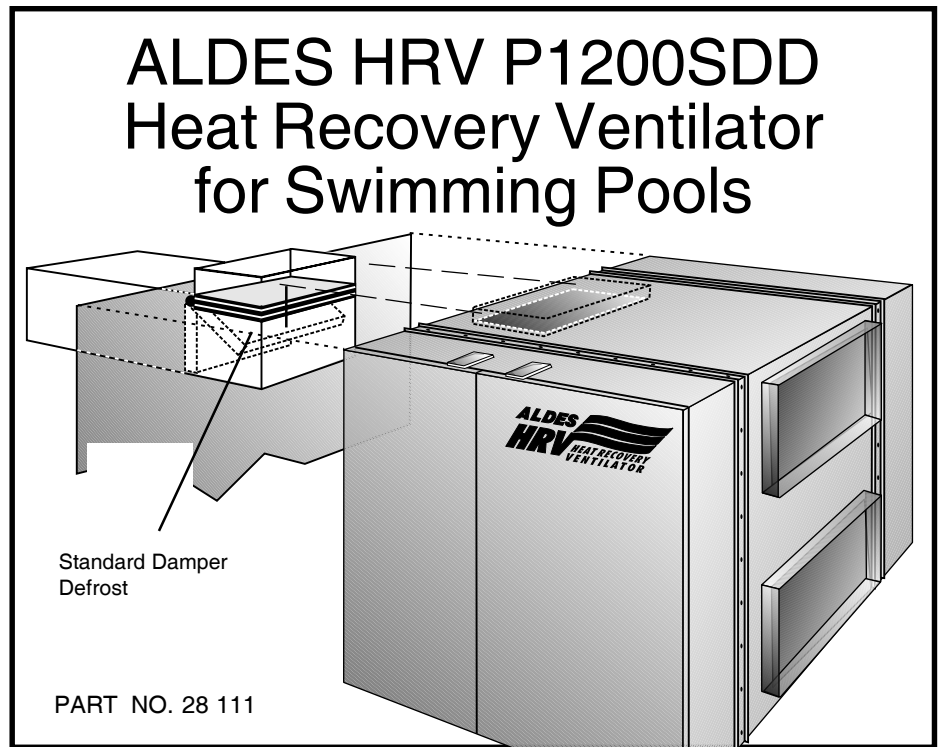
HRV P1200SDD HEAT RECOVERY VENTILATOR POOL MODEL

PRODUCT
SPECIFICATIONS
AND ENGINEERING
INFORMATION
SUBMITTAL DATA
460 - 0403

ALDES Pool Model Heat Recover Ventilators are designed to exhaust humid air from indoor swimming pools and spa area and to supply tempered fresh air from outdoors. It incorporates an efficient aluminum core for heat recovery of waste heat to temper the fresh outdoor air, to provide an economical solution to excessive humidity, odor, stuffiness, and other indoor air pollutants. The model P1200SDD is intended for small commercial, institutional, and residential applications for pool and wetted deck areas up to 1000 square feet.

The pool model has three modes of operation to meet the unique needs of pools. The normal ventilation mode provides exhaust of humid air and supply of fresh outdoor air, with heat recovery in the efficient aluminum cores. This mode is controlled by an adjustable dehumidistat that opens the fresh air damper to the outdoor air intake, and operates both the supply and exhaust fans. (A duct heater or hot water coil may be installed in the supply duct to provide additional heat to the incoming air or recirculating air. This heater would be controlled by a duct mounted thermostat.)

The second mode of operation occurs when the humidity level falls below the setpoint of the dehumidistat. The exhaust fan shuts off, the supply air damper closes off outdoor air, and opens



the recirculation air circuit. This mode maintains constant air circulation in the conditioned space, and a means of heating the conditioned space if a duct heater or hot water coil is installed in the supply duct.

The third mode of operation provides automatic defrost by shutting off fresh air intake in a cycle of 4.5 minutes off, 17 minutes on. The defrost cycle occurs when outdoor temperatures are below 27°F (-3°C)

GENERAL FEATURES

Thermally conductive aluminum heat exchange core, cross-flow design, easily removed for cleaning or service.

Insulated 20 gauge white powder coated galvanized steel cabinet.

Direct drive centrifugal forward curve blowers, Multi-speed providing 600 to 1100 cfm. one in each air stream.

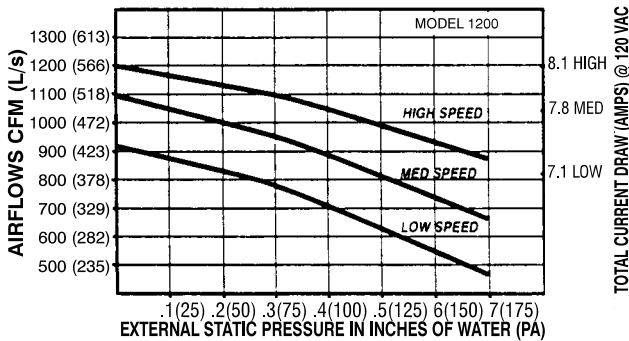
Two efficient three speed PSC double shafted motors 120 V, 4 Amps each (8.1 Amps total on high speed), 1 ph. 1/4HP, 1625 RPM. Watts - total on high speed - 972.

Washable filters, one in each air stream protect the core. Easy to access and clean.

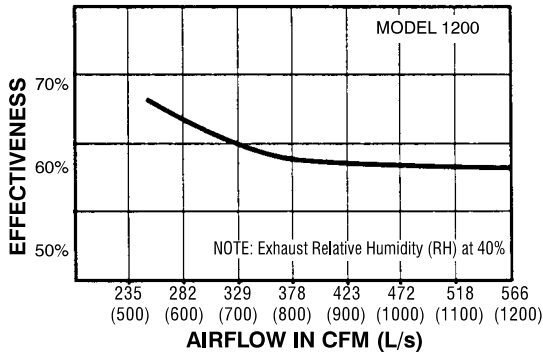
Installation accessories and controls make installation simple.

PERFORMANCE

AIRFLOWS (Each Air Stream)



TEMPERATURE EFFECTIVENESS



OPTIONS AND ACCESSORIES

28 998: 60 MIN. REMOTE TIMER

28 882 DEHUMIDISTAT - Activates high speed when indoor humidity rises above set point on control

Note: Manufacturer reserves the right to change specifications without notice.

WARRANTY
Units carry a 15 year warranty on the heat recovery core and a 2 year replacement parts warranty.

All units conform to CSA and UL Standards

SPECIFICATIONS

General: Unit shall be completely wired and includes blowers, filters, heat exchange cores and control panel.

Cabinet: 29⁷/₈" x 41¹/₂" x by 24⁵/₈" H (760 x 1055 x 625 mmH). Constructed of 20 gauge prepainted galvanized steel (G60). Interior lined with foil faced Insulation where surface is exposed to cold air. Access door is hinged and latch. Disconnect switch engaged by door panel. Condensate pan has drain connections.

Heat Exchange Core: Three modules, aluminum plate heat exchange core assembly.

Air filter: Six washable filters.

Motors: Two efficient three speed PSC double shafted motors 120 VAC, 4 Amps each (8.1 Amps total on high speed), 1/4 HP, 1625 RPM. Watts - total on high speed - 972.

Blowers: Centrifugal type rated at 1200 CFM (566 L/s) free air delivery. Each air stream has one double shafted motor driving a centrifugal blower. Rubber isolated mounts.

Controls: Illuminated power switch, 3 speed blower control, low voltage (24 VAC) terminals for connection of remote controls and defrost light indicating automatic operation.

Defrost: Pool and Defrost air bypass routes air to defrost core. Light indicates when automatic damper defrost occurs (preset at 27°F (-3°C)).

Duct Connections: Five 20" X 8" (508mm X 200mm H).

Drain Connections: Two 1/2" O.D.

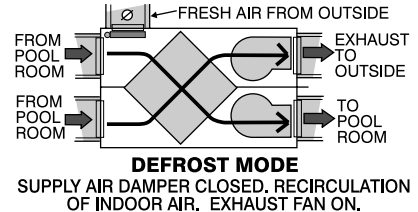
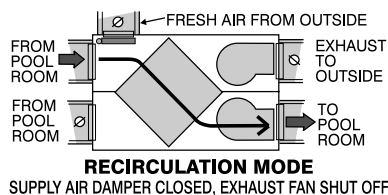
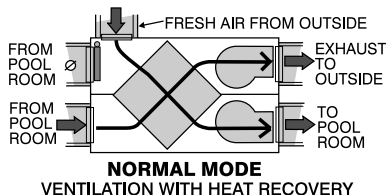
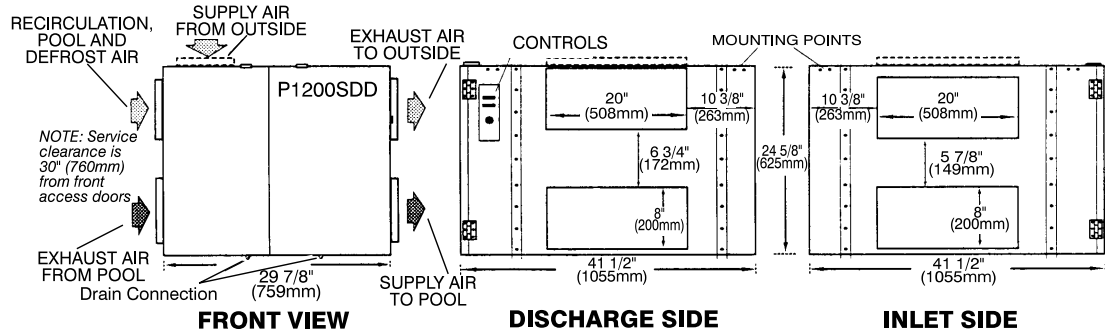
Mounting: Unit to be set in support brackets hung by threaded rod type apparatus. (Brackets and rod not provided).

Weight: 191 lbs (87 kg)

Shipping Weight: 215 lbs (98 kg)

Manufacturer: American ALDES Ventilation Corp.
4537 Northgate Court, Sarasota, FL 34234

DIMENSIONS P1200SDD



PROJECT

DATE

SUBMITTED BY

CONTRACTOR

AMERICAN ALDES
VENTILATION CORPORATION
4537 NORTHGATE COURT
SARASOTA, FL 34234-2124, USA
Tel: 941 • 351- 3441
Fax: 941 • 351- 3442
www.americanaldes.com
e-mail: info@aldes-us.com

IAQ VENTILATION HOTLINE
800-255-7749
ALDES

460-04-03

BY MATHEWS GRAPHIC DESIGN



HRV 1500IFD HEAT RECOVERY VENTILATOR

PRODUCT
SPECIFICATIONS
AND TECHNICAL
DATA

1232-2-05

SPECIFICATIONS

AIRFLOW

1500cfm (705 L/s) at 1.0"wg ESP.

PERFORMANCE

65% effective at 1500 cfm (705 L/s).

CORES

Six patented aluminum heat recovery cores arranged for efficient cross-flow ventilation.

MOTORS

Two single shaft ECM variable speed, 208/240V, 9.1 Amps, 1 ph, 1 hp.

BLOWERS

Two direct drive centrifugal blowers, one per airstream.

FILTERS

Two - 20" x 16" x 2" pleated filters in each airstream. MERV 6 efficiency.

CONNECTION DUCT SIZES

Four 18" x 18"

CABINET

20 gauge prepainted steel insulated 1" thick Elastomeric insulation.

DRAIN

Two powder coated galvanized steel drain pans with 1/2" O.D. drain connections.

MOUNTING

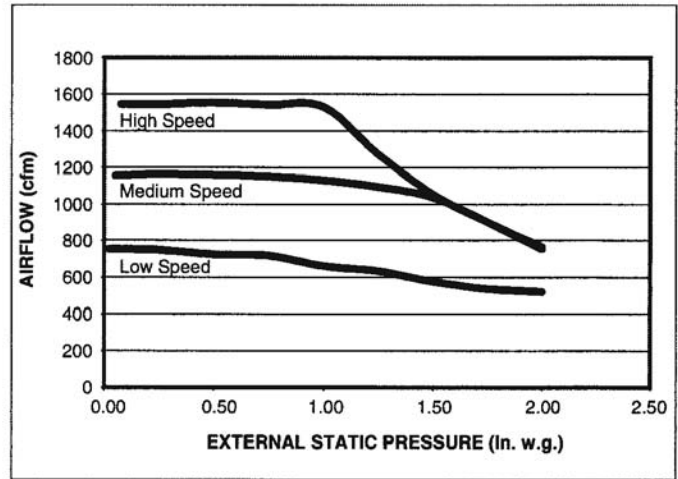
Unit to be set on support brackets hung by threaded rod type apparatus. Brackets and rod not included.

CONTROLS & FUNCTION

Integrated microprocessor circuit board. 3 independently adjustable motor speeds.

WEIGHT 480 lbs (218 kg)

SHIPPING WEIGHT 525 lbs (238 kg)



OPTIONS

28 879 Digital Electronic Timer - 20/40/60 min. (3 wire)

28 883 Dehumidistat Ventilation Control (DVC)

28 882 Remote Wall Mount Dehumidistat Control
24 VAC only

28 99 500 3 Speed Control

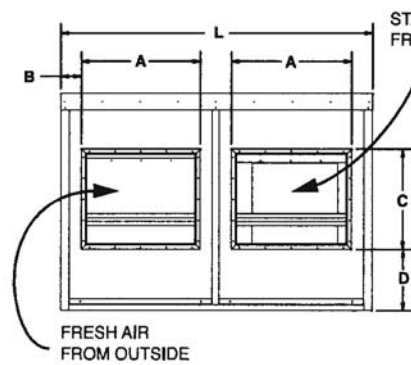
All units conform to CSA and UL standards

WARRANTY

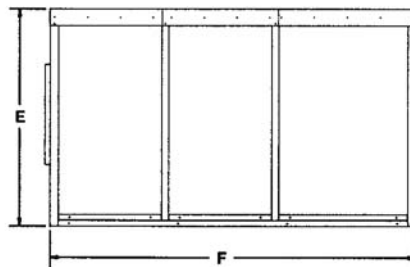
All units carry a 15 year warranty on the heat recovery cores and a 2 year replacement parts warranty.

DIMENSIONS 1500IFD inches

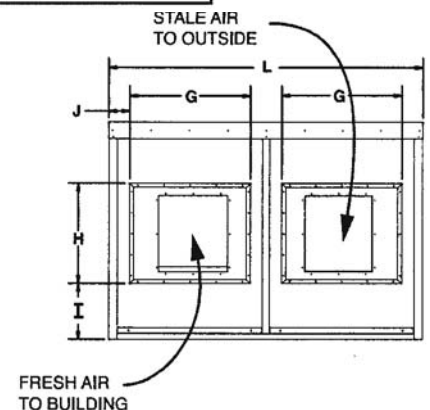
	A	B	C	D	E	F	G	H	I	J	L
IFD	18	2.5	18	12	37	66.75	18	18	10.25	2.5	44



INLET END VIEW



SIDE VIEW



OUTLET END VIEW

Service Clearance 30"

MATHEWS GRAPHIC DESIGN - 941-358-0862



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VENTILATION
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1232-2-05



HRV 2000SFD HEAT RECOVERY VENTILATOR

PRODUCT
SPECIFICATIONS
AND TECHNICAL
DATA

1436-7-06

SPECIFICATIONS

AIRFLOW

2000 cfm (940 L/s) at 1.0"wg ESP.

PERFORMANCE

65% effective at 2000 cfm (940 L/s).

CORES

Eight patented aluminum heat recovery cores arranged for efficient cross-flow ventilation.

MOTORS

Two single speed, shaft, 208-204 VAC, 8.0 Amps, (16.0 total), 1.5 hp.

BLOWERS

Two belt drive centrifugal blowers with adjustable pulley airstream.

FILTERS

Two - 16" x 25" x 2" pleated filters in each airstream. MERV 6 efficiency 60% @ 4.69 microns.

DUCT CONNECTIONS

Four 18" x 22"

CABINET

20 gauge powder coated steel for superior corrosion resistance. Unit includes metal lined sides and roof panels with 2" fiberglass insulation (R8) between linings.

DRAIN

Two powder coated galvanized steel drain pans with 1/2" O.D. drain connections.

MOUNTING

Unit to be set on support brackets hung by threaded rod type apparatus. Brackets and rod not included.

CONTROLS & FUNCTION

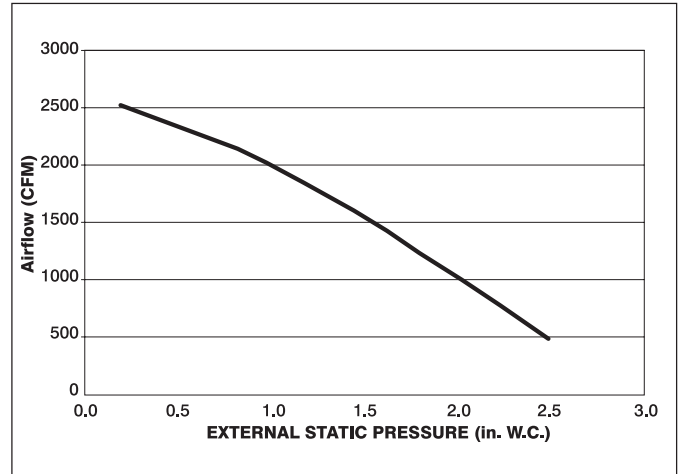
Integrated microprocessor circuit board.

DEFROST

Factory set defrost time. Supply motor is shut off while exhaust air defrosts core.

WEIGHT 750 lbs (340 kg)

SHIPPING WEIGHT 800 lbs (363 kg)



OPTIONS

28 879 Digital Electronic Timer - 20/40/60 min. (3 wire)

28 883 Dehumidistat Ventilation Control (DVC)

28 882 Remote Wall Mount Dehumidistat Control

24 VAC only

28 99500 3 Speed Control

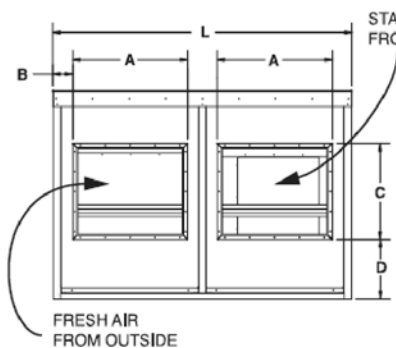
All units conform to CSA and UL standards

WARRANTY

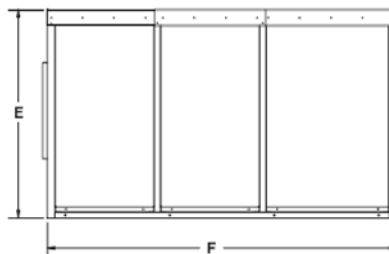
All units carry a 15 year warranty on the heat recovery cores and a 2 year replacement parts warranty.

DIMENSIONS 2000SFD (inches)

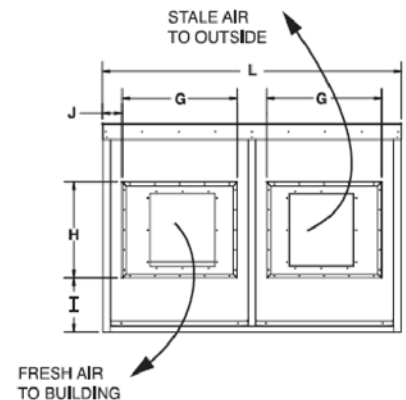
	A	B	C	D	E	F	G	H	I	J	L
SFD	22	3.75	18	11.25	39	66.75	22	18	10.25	3.75	57.25



INLET END VIEW



SIDE VIEW



OUTLET END VIEW

Service Clearance 30"

MATHEWS GRAPHIC DESIGN - 941-358-0862



**AMERICAN
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800-255-7749
ALDES**

1436-7-06



HRV 2000SFDE HEAT RECOVERY VENTILATOR

PRODUCT
SPECIFICATIONS
AND TECHNICAL
DATA

1437-7-06

SPECIFICATIONS

AIRFLOW

2000 cfm (940 L/s) at 1.0"wg ESP.

PERFORMANCE

65% effective at 2000 cfm (940 L/s).

CORES

Eight patented aluminum heat recovery cores arranged for efficient cross-flow ventilation.

MOTORS

Two single speed, single shaft, 208-240VAC, 8.0 Amps, (16.0 TOTAL), 1.5 hp.

BLOWERS

Two belt drive centrifugal blowers with adjustable pulleys, one per airstream.

FILTERS

Two - 16" x 25" x 2" pleated filters in each airstream.
MERV 6 efficiency 60% @ 4.69 microns.

DUCT CONNECTIONS

Two 20" x 19" hoods included with washable screens.
Two 25" x 16" connections to and from building under cabinet.

CABINET

20 gauge powder coated steel exterior. Unit includes metal lined sides and roof panels with 2" fiberglass insulation (R8) between linings.

DRAIN

Two powder coated galvanized steel drain pans with 1/2" O.D. drain connections.

MOUNTING

Optional roof curb. (Part No. 28 129)

CONTROLS & FUNCTION

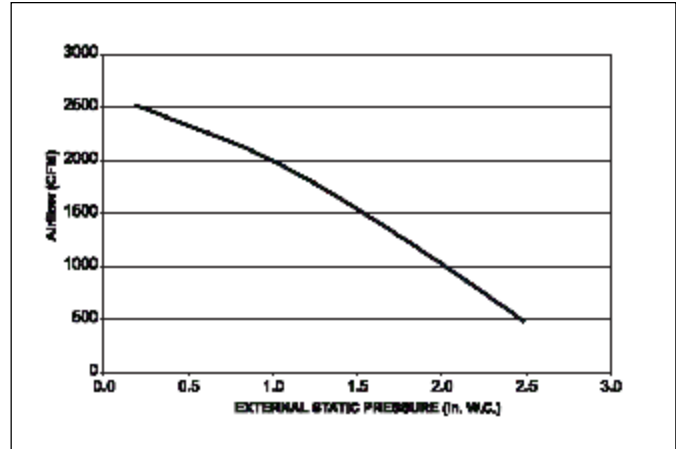
Integrated microprocessor circuit board.

DEFROST

Factory set defrost time. Supply motor is shut off while exhaust air defrosts core.

WEIGHT 750 lbs (340 kg)

SHIPPING WEIGHT 800 lbs (363 kg)



OPTIONS

28 879 Digital Electronic Timer - 20/40/60 min. (3 wire)

28 883 Dehumidistat Ventilation Control (DVC)

28 882 Remote Wall Mount Dehumidistat Control

24 VAC only

28 99500 3 Speed Control

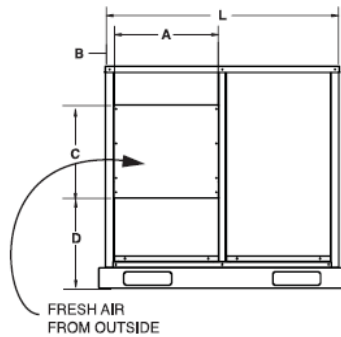
All units conform to CSA and UL standards

WARRANTY

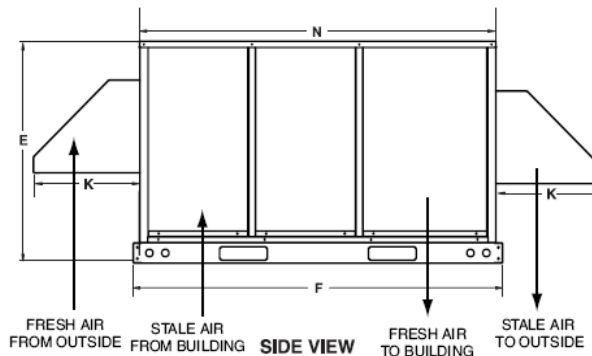
All units carry a 15 year warranty on the heat recovery cores and a 2 year replacement parts warranty.

DIMENSIONS 2000SFDE (inches)

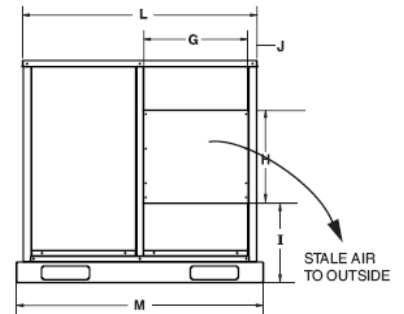
	A	B	C	D	E	F	G	H	I	J	K	L	M
2000SFDE	24	3	19	14.75	43	69.5	24	19	13.75	3	20	57.25	59.75



INLET END VIEW



SIDE VIEW



OUTLET END VIEW

Service Clearance 30"

MATHEWS GRAPHIC DESIGN - 941-358-0862



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1437-7-06



HRV 2500SFD / 2500SFDE HEAT RECOVERY VENTILATOR

PRODUCT
SPECIFICATIONS
AND ENGINEERING
INFORMATION
SUBMITTAL DATA
412 - 04-03

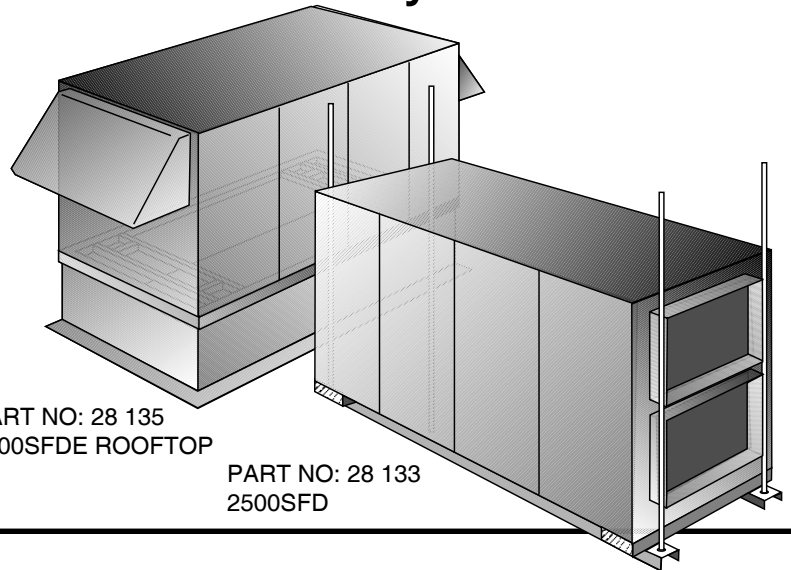
ALDES Models HRV 2500SFD and 2500SFDE are compact heat recovery ventilators designed to exhaust stale indoor air and supply fresh air from outdoors. They are intended for small commercial and institutional applications, such as office buildings, classrooms, apartment buildings, hospitals, nursing homes, dormitories, restaurants, health clubs, etc.

Each model is a technically advanced controlled mechanical ventilation system to meet the requirements of modern, tightly built and highly insulated buildings. It provides a consistent supply of fresh air while lowering heating costs during the winter by transferring heat from the exhaust air to the fresh air stream. During the summer it also reduces the load on the air conditioner by lowering the temperature of the fresh outdoor air. The system provides an economical solution for excessive indoor humidity, odors, stuffiness, and other indoor air pollutants.

As the two air streams pass through the HRV, they are separated by thin plates of aluminum in the core. The air streams do not mix, so there is no recontamination of the fresh air by stale air. Heat passes through the thermally conductive aluminum from the warmer air stream to the colder air stream, recovering most of the energy otherwise lost to the outdoors.

The Model 2500 is available with two mounting options. The Model 2500SFD is intended for installation indoors. The duct connections to the outdoors are conveniently located near the top, to permit ducting up through a roof, or turning horizontally for side wall intake and discharge. The Model 2500SFDE mounts on an insulated roof curb, supplied with the unit. The supply

ALDES HRV 2500SFD / 2500SFDE Heat Recovery Ventilator



and exhaust duct connections to the interior are totally enclosed within the insulated curb.

These units offer a wide range of airflow and pressure, using 3-speed direct drive motors. They can be provided with solid state motor speed controls if desired. Use of direct drive motors, with selectable speeds results in simpler installation and bal-

ancing, less maintenance (belt adjustments and replacements) and reduced electrical consumption as compared to belt drive units. Both models utilize fan defrost, shutting off the supply fan on a timed defrost cycle that begins at temperatures below 26 °F (-4 °C). The defrost time cycle (user adjustable) is factory preset to 10 minutes defrost, followed by 30 minutes normal operation.

GENERAL FEATURES

Thermally conductive aluminum heat exchange core, cross-flow design, easily removed from either side for cleaning or service.

Insulated 20 gauge powder coated galvanized steel cabinet.

Direct drive centrifugal forward curve blowers, one in each air stream.

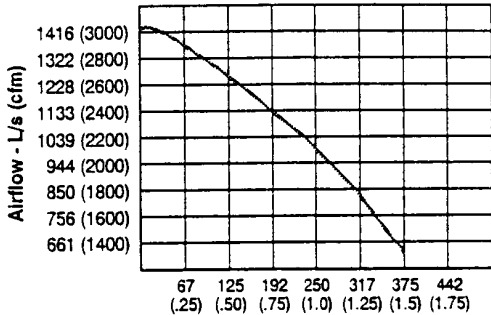
Two efficient three speed PSC single shaft motors 208/230 V, 5.1 Amps each (10.2 Amps total on high speed), 1 ph. 1 HP.

Two 18"x24" 4-in deep pleated filters, one in each air stream protect the core.

Defrost: Factory set defrost time (user adjustable). Supply motor shuts off while exhaust air defrosts core.

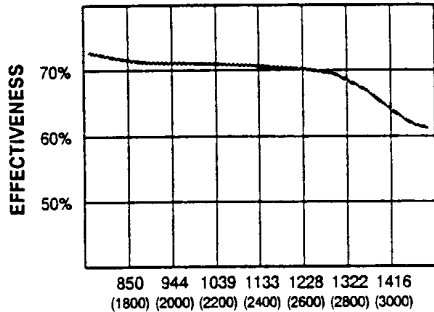
PERFORMANCE

AIRFLOWS (Each Air Stream)



External Static Pressure - pascals (in.wg)

TEMPERATURE EFFECTIVENESS



Airflow - L/s (cfm)

OPTIONS AND ACCESSORIES

- 28 998: CRANK TIMER** - Mechanical timer to activate high speed.
- *28 880: DIGITAL ELECTRONIC TIMER (DET)** - 20, 40 or 60 minutes of high speed at the touch of a button.
- *28 881: PROGRAMMABLE VENTILATION CONTROL (PVC)** - Activates high speed via built in 99-109 Air Sentry, dehumidistat and 24 hour timer.
- 28 883: COMMERCIAL INTERFACE CONTROL (CIC)** - Connects low voltage terminals on HRV to specified digital controls above.
- 28 882 DEHUMIDISTAT** - Activates high speed when indoor humidity rises above set point on control

* These devices require connection to the 28 883 CIC

- 40 104: 4" ALGRILLE** **40 106: 6" ALGRILLE**
- 40 105: 5" ALGRILLE** **40 108: 8" ALGRILLE**

Round, white step-type diffusers.

Note: Manufacturer reserves the right to change specifications without notice.

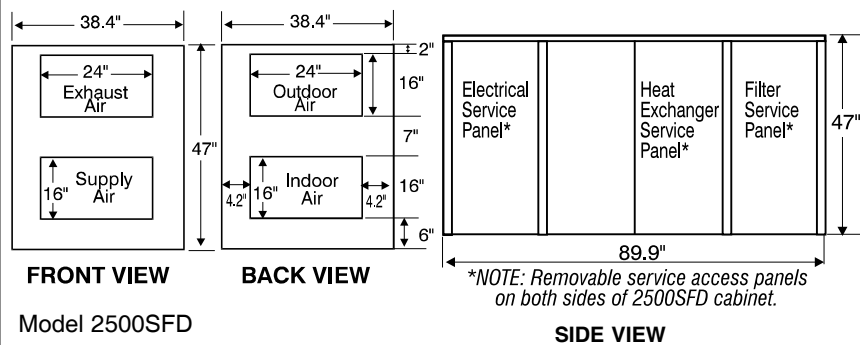
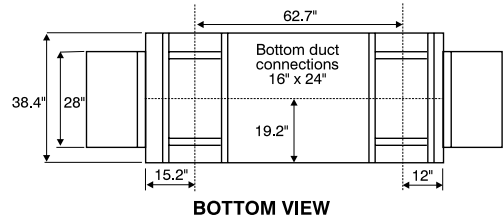
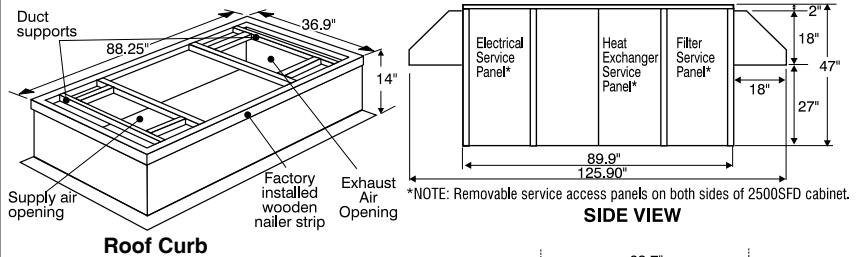
WARRANTY
Units carry a 15 year warranty on the heat recovery core and a 2 year replacement parts warranty.

All units conform to CSA and UL Standards

SPECIFICATIONS

- General:** Unit shall be completely wired and includes blowers, filters, heat exchange cores and control panel.
- Performance:** 70% effective at 2500 cfm (1172 L/s)
- Air Flow:** 2100 cfm (985 L/s) at 1.0" wg ESP
- Cabinet:** 89.9" x 38.4" x by 47" H. Constructed of 20 gauge powder coated galvanized steel (G60) for superior corrosion resistance. 16 gauge galvanized frame, insulated with 1.5" fiberglass insulation to prevent condensation.
- Heat Exchange Core:** Modular aluminum sensible heat recovery core. Plate-to-plate type. Slides out of either side of cabinet for service.
- Air filter:** Two 18" x 24" - 4 inch pleated filters in each air stream.
- Motors:** Two single shaft PSC, 3-speed, 208/230V, 5.1 amps. 1 ph, 1 hp.
- Blowers:** Two direct drive centrifugal blowers, one per air stream.
- Controls:** 24 V terminals strip inside electrical box, to connect optional remote controls (not included), obtain on/off and high/low functions.
- Defrost:** Factory set defrost time 10 min. defrost, 30 minutes normal operation. Defrost cycle begins at temperature's below 26°F (-4°C) (user adjustable). Supply motor is shut off while exhaust air defrosts core.
- Duct Connections:** Four 24" x 16" (610mm x 406mm)
- Drain:** Two stainless steel drain pans with 3/4" drain spouts.
- Mounting:** Unit to be set on support brackets hung by threaded rod type apparatus. (Brackets and rods not included.)
- Weight:** 700 lbs **Shipping Weight:** 780 lbs
- Manufacturer:** American ALDES Ventilation Corp., 4537 Northgate Court, Sarasota, FL 34234

Model 2500SFDE



MATHEWS GRAPHIC DESIGN 941-358-0862

PROJECT	DATE	SUBMITTED BY	CONTRACTOR
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