

PrepAir600i, 1200i, 2000i

Heat Recovery Ventilator Product Information



PrepAir600i



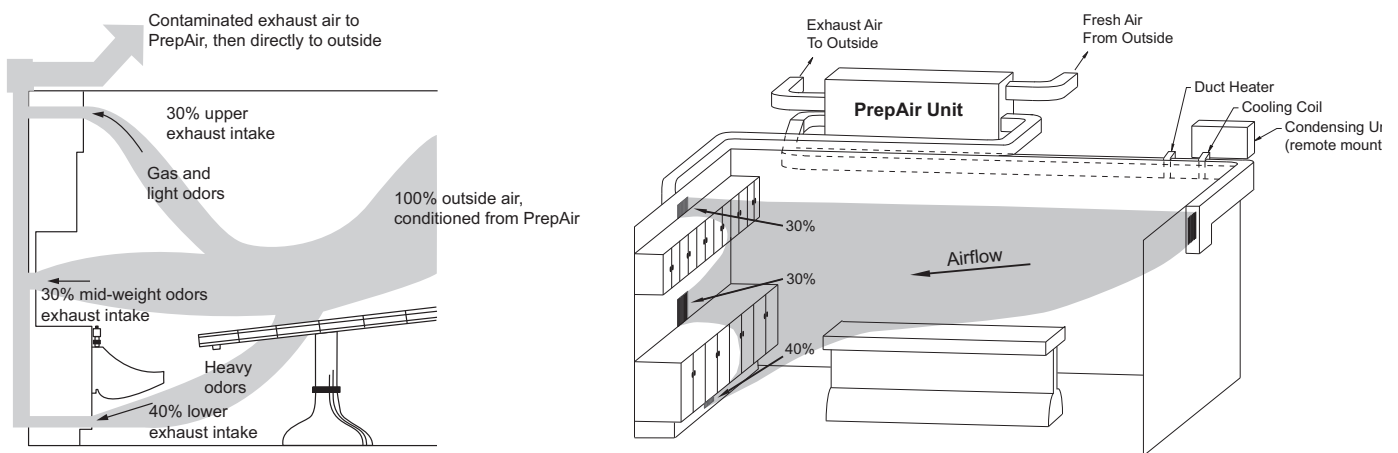
PrepAir2000i



PrepAir1200i

PrepAir Environmental Control Modules are the first HVAC systems that have been designed specifically to produce the conditions necessary to meet OSHA specifications in preparation rooms used in the funeral industry. The unique heat recovery module minimizes operation cost and maximizes personal comfort.

How it works:



Typical Preparation Room Layout

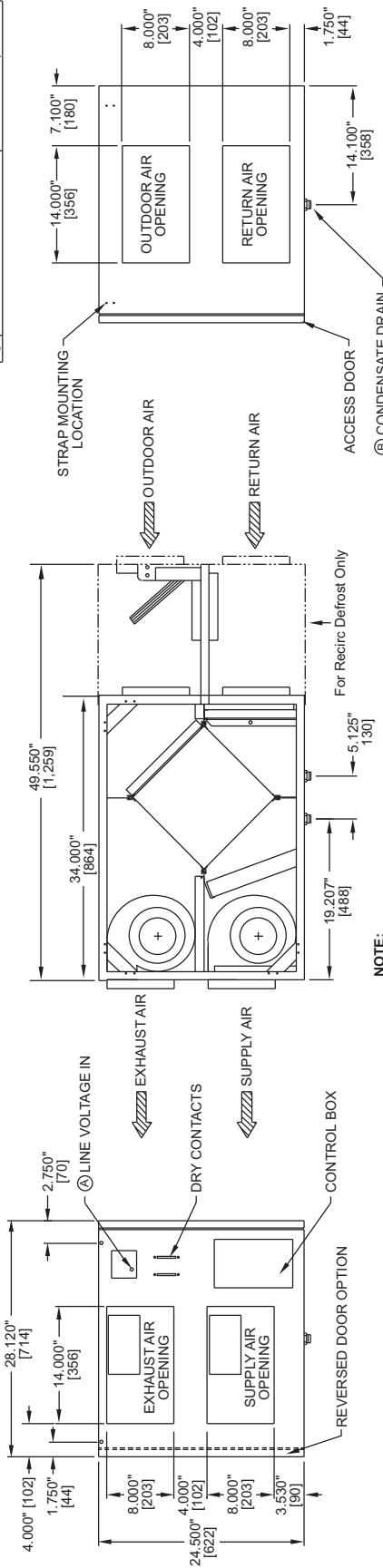
PrepAir600i Dimensional Drawing

NOTE: Dimensions in [] are millimeters

600i (with Recirculation Defrost)

POLY CORE	197 LBS [90 kg]
ALUMINUM CORE	204 LBS [93 kg]
HM CORE	208 LBS [95 kg]

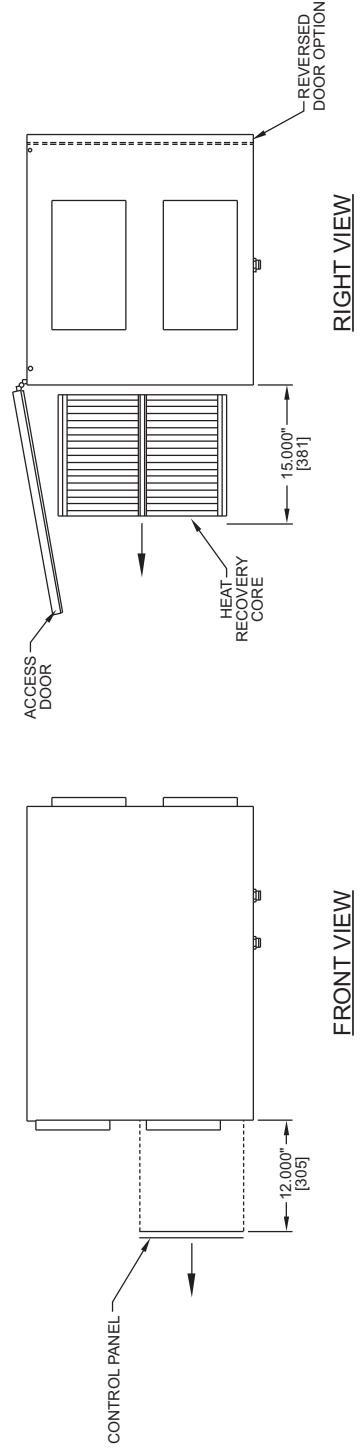
CONNECTION TABLE	
CONNECTION SIZES	
(A) Line voltage in	14 gauge wire nut
(B) Condensate drain fitting (2x)	3/4" mpt



NOTE: For units with the reversed door option, interior components will appear as a mirror image of the above diagram.

NOTE: A minimum of 12.000" [305] clearance from any obstruction is required for removal of the control box.

NOTE: A minimum of 15.000" [381] clearance from any obstruction is required for removal of heat recovery cores, fans, etc. The access door can be removed from cabinet with only 2.000" [51] of clearance.



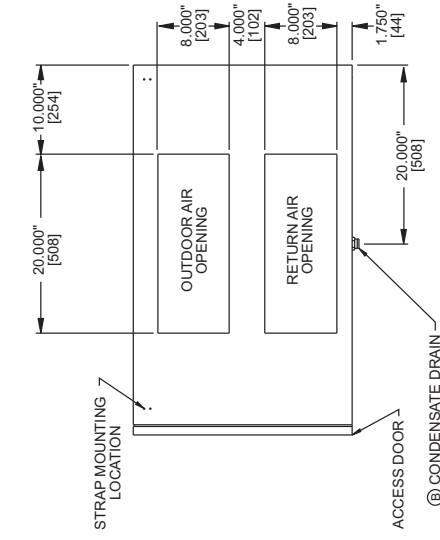
PrepAir1200i Dimensional Drawing

NOTE: Dimensions in [] are millimeters

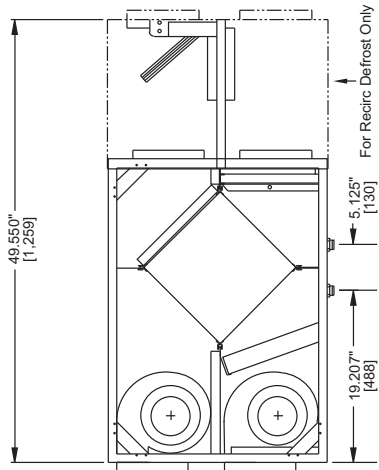
1200i (with Recirculation Defrost)

POLY CORE	247 LBS [112 kg]
ALUMINUM CORE	257 LBS [117 kg]
HM CORE	284 LBS [120 kg]

CONNECTION TABLE	
CONNECTION SIZES	
(A) Line voltage in	14 gauge wire nut
(B) Condensate drain fitting (2x)	3/4" mpt



LEFT VIEW

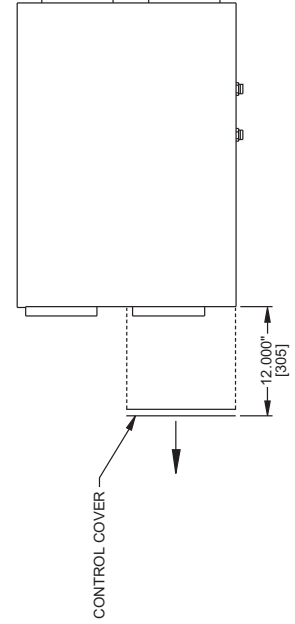


NOTE: For units with the reversed door option, interior components will appear as a mirror image of the above diagram.

FRONT VIEW

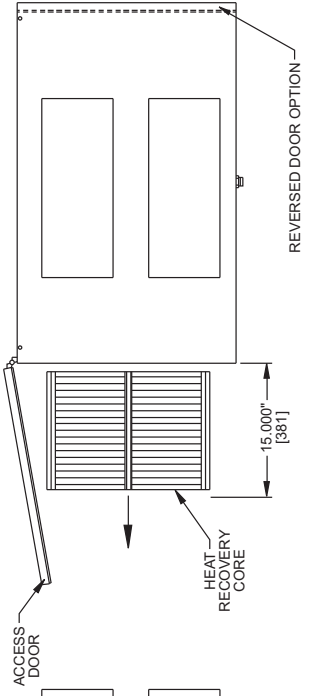
RIGHT VIEW

NOTE: A minimum of 12,000" [305] clearance from any obstruction is required for removal of the control box.



FRONT VIEW

NOTE: A minimum of 15,000" [381] clearance from any obstruction is required for removal of heat recovery cores, fans, etc. The access door can be removed from cabinet with only 2,000" [51] of clearance.



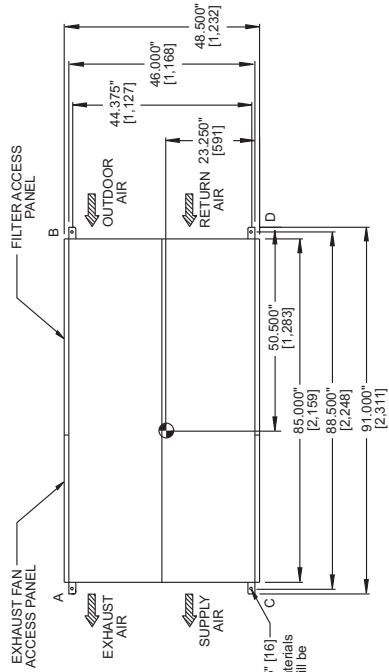
RIGHT VIEW

PrepAir2000i Dimensional Drawing

NOTES:
 Dimensions in [] are millimeters
 ☉ Center of gravity
 ⇨ Direction of airflow

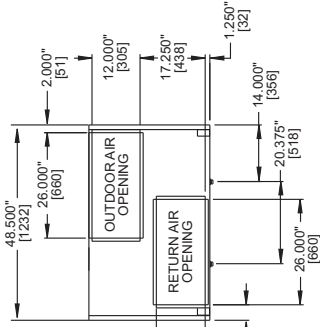
HRV2000i		POLY CORE		ALUMINUM CORE		HM CORE	
PTS	LBS	Kg	PTS	LBS	Kg	PTS	LBS
A	189	86	A	197	90	A	197
B	147	67	B	153	70	B	153
C	203	92	C	212	96	C	212
D	161	73	D	168	76	D	168
TOTAL	700	318	TOTAL	730	332	TOTAL	730

CONNECTION TABLE		CONNECTION SIZE
(A)	Condensate drain fitting (4x)	3/4" NPT

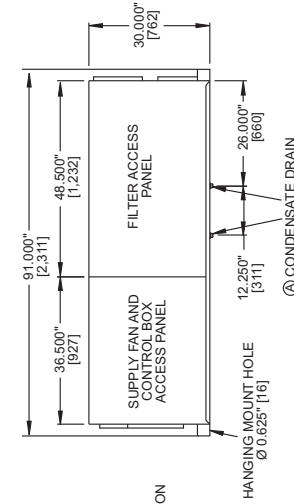


TOP VIEW

HANGING MOUNT HOLE Ø 0.625" [16]
 NOTE: If the unit is to be hung, materials required to the unit will be supplied by others.

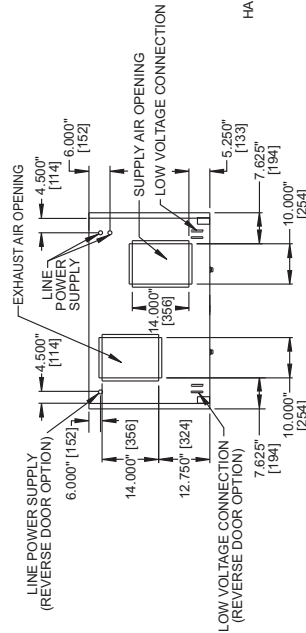


FRONT VIEW



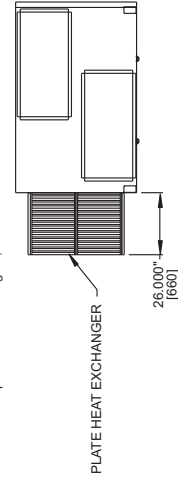
LEFT VIEW

NOTE: A minimum of 12,000" [305] clearance from any obstruction is required for power hook-up, low voltage remote connection and control panel access.



RIGHT VIEW

NOTE: A minimum of 26,000" [660] clearance from any obstruction is required for removal of plate heat exchangers, fans and control box access.



Specifications and Ratings

Model Name	PrepAir600i	PrepAir1200i	PrepAir2000i
Fans			
Supply Type	Direct drive	Direct drive	Belt drive
Wheel Type	Forward curved	Forward curved	Forward curved
Wheel Size [Inches]	7ø x 6	7ø x 6 (two)	12ø x 7
Wheel Size [mm]	178ø x 152	178ø x 152	305ø x 178
Bearing	Sleeve Direct drive	Sleeve Direct drive	Ball sealed Resilient rings
Housing	Cold rolled	Cold rolled	Cold rolled
Shaft [mm]	1/2" [13]	1/2" [13] keyed	1" [25] keyed
Exhaust Type	Direct drive	Direct drive	Belt drive
Wheel Type	Forward curved	Forward curved	Forward curved
Wheel Size [Inches]	7ø x 6	7ø x 6	12ø x 7
Wheel Size [mm]	178ø x 152	178ø x 152	305ø x 178
Bearing	Sleeve Direct drive	Sleeve Direct drive	Ball sealed Resilient rings
Housing	Cold rolled	Cold rolled	Cold rolled
Shaft [mm]	1/2" [13]	1/2" [13] keyed	1" [25] keyed
Heat Recovery Module			
Type	Flat plate	Flat plate	Flat plate
Size [Inches]	12 x 12 x 26	12 x 12 x 39	15 x 15 x 46
Size [mm]	305 x 305 x 660	305 x 305 x 991	381 x 381 x 1168
Flat Plate Material	Poly	Poly	Poly
Flat Plate Performance	Appendix K	Appendix K	Appendix K
Filters			
Type (Primary)	Washable foam	Washable foam	MEF
Size [Inches]	13 x 11 x 1	13 x 11 x 1	12 x 24 x 4
Size [mm]	330 x 279 x 25	330 x 279 x 25	305 x 610 x 102
Number Per Airstream	2	3	2
Type (Secondary)	MEF	MEF	HEF
Size [Inches]	13 x 11.25 x 2	13 x 11.25 x 2	12 x 24 x 4
Size [mm]	330 x 286 x 51	330 x 286 x 51	305 x 610 x 102
Number Per Airstream	2	3	2
Weight (Without Recirc Module)			
Net Core Weight Maximum			
Polypropylene Core	148 lbs [67 kg]	186 lbs [85 kg]	700 lbs [318 kg]
Shipping Weight	add 40 lbs [18 kg]	add 40 lbs [18 kg]	750 lbs [341 kg]
Weight (With Recirc Module)			
Net Core Weight Maximum			
Polypropylene Core	197 lbs [90 kg]	247 lbs [112 kg]	recirc module n/a

Electrical Data

Motor HP	120/1/60		208/1/60		230/1/60		208/3/60		230/3/60		460/3/60		575/3/60	
	MCA	MOP	MCA	MOP	MCA	MOP	MCA	MOP	MCA	MOP	MCA	MOP	MCA	MOP
1/12	3.52	4.64	2.35	2.95	2.35	2.95	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
1/6	6.63	9.13	3.93	5.23	3.70	4.90	5.05	6.85	5.05	6.85	3.00	3.89	n/a	n/a
1/4	9.55	13.35	5.28	7.18	4.83	6.53	5.28	7.18	5.28	7.18	3.09	4.02	n/a	n/a
1/3	14.28	20.18	6.40	8.80	6.18	8.48	6.40	8.80	6.40	8.80	3.70	4.90	n/a	n/a
1/2	19.90	28.30	10.90	15.30	10.45	14.65	5.95	8.15	5.50	7.50	3.25	4.25	2.80	3.60
3/4	23.95	34.15	13.15	18.55	12.48	17.58	8.20	11.40	7.75	10.75	4.38	5.88	3.70	4.90
1	31.15	44.55	17.65	25.05	16.08	22.78	9.55	13.35	8.65	12.05	4.83	6.53	4.15	5.55
1 1/2	41.50	59.50	22.38	31.88	21.25	30.25	12.93	18.23	11.80	16.60	6.40	8.80	5.28	7.18
2	59.50	85.50	30.70	43.90	30.25	43.25	16.98	24.08	15.40	21.80	8.20	11.40	6.85	9.45
3	82.00	118.00	43.75	62.75	41.50	59.50	21.93	31.23	19.90	28.30	10.45	14.65	8.65	12.05

NOTE: Based on full load motor consumption. Values shown are for the complete unit and include both motors.

Selection With Different Size Supply And Exhaust Motors

For different motor HP:

- 1) Select the MCA and MOP for each motor.
- 2) Add the two numbers together and divide by 2.

Example:

	460/3/60	
	MCA	MOP
2 HP motor	8.20	11.40
3 HP motor	10.45	14.65
Total	18.65	26.05
Real value	9.33	13.03