

80% + of the total energy.

from 500 to 16,000 cfm

## GOLD SYSTEM APPLICATION DAIKIN VRV



Final heating can be accomplished

with hot water coil, electric heat or

accommodate a 0-10 vdc control signal.

any other heat source that can

can be added, such as hot water, electric or any other source that can

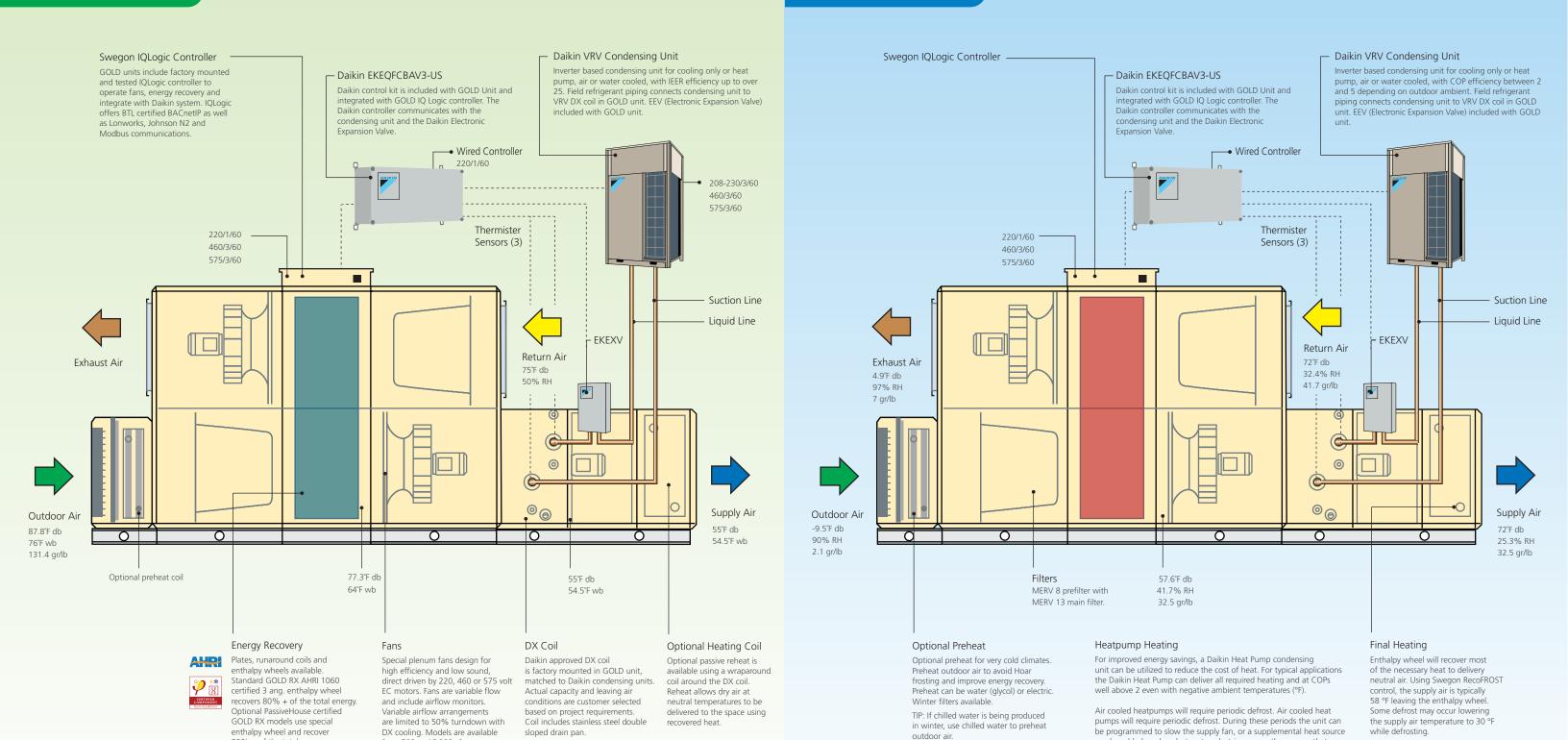
accommodate a 0-10 vdc control signal. Daikin condensing units

composed of 2 or more modules can provide continuous heating

during defrost to alleviate these issues.







www.swegonnorthamerica.com



Swego	'n					
					60°F → WHSP	
Swegon Performance - BOSTON					70°F (Loop	
Model	RX-25				MAISO	
Supply Air	4,500 CFM				WHSP VRF Unit	
Exhaust Air	4,500 CFM		Return Air 72°F db		90°F	
SA External Static	1.5-2.2" e.s.p.	Return Air 75°F db	10% RH 11.5 gr/lb	Return Air 75°F db	Return Air	Return Air
EA External Static	1.5-2.2" e.s.p.	50% RH	Outdoor Air	Outdoor Air	75°F db 50% RH 90°F	75°F do 50% RH
Supply Fan	4.6 HP	Outdoor Air 90.6F db 72.6F wb	9.5°F db 90% RH 72°F db 21.1 qr/lb	90.6°F db	Outdoor Air 90.6°F db	Outdoor Air
Exhaust Fan	4.6 HP	72.6°F wb 54.6°F wb 63.2 gr/lb	2.1 gr/lb 9% RH 10.4 gr/lb	58.1°F Wb 62.7 gr/lb	72.6 F W U	90.6°F db 72.6°F wb
Rotary Wheel Sensible Efficiency	82.5%	After Wheel 77.8°F db	After Wheel 57.6°F db Electric Heat	After Wheel   Precool   After DX Coil   77.8°F db   68.2°F db   65.4°F wb   55°F db   55°F db	L After Wheel         61.8 gr/lb           77.8°F db         62.4°F wb	Supply Air  After Wheel  77.8°F db  63.2 gr/lb
	02.5%	62.4°F wb	41.7°F wb 4.5 W/cfm 32.5 gr/lb	62.4°F wb 60.8°F wb 54.5°F wb	62.4°F wb	77.8° db 54.6°F wb 62.4°F wb 63.2 gr/lb
Summer Wheel Performance	00.6	-				
OA EDB Temp (F)	90.6	<u> </u>				
OA EWB Temp (F)	72.6	_				
RA EDB Temp (F)	75	_				
RA EWB Temp (F)	62.4	DX Cooling Operation	DX Cooling with Electric Heat	DX Cooling with Wrap Around Heat Pipe	DX Cooling with Condenser Water Reheat	DX Cooling Operation
Summer Off Wheel DB	77.8		<u> </u>			
Summer Off Wheel WB	64.8			100 mg		**************************************
Rotary Wheel Latent Efficiency	75.0%			9 70 100		
Winter Wheel Performance			<b>"</b>	y 70		
OA EDB Temp (F)	13.4					
RA EDB Temp (F)	72			p	* "	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
RA EWB Temp (F)	54.4	Outdoor Air	Outdoor Air	Cultoor Air	Culdor Air	Outdoor Air
RA EDB Temp (F) (Defrost Mode)	72	Supply Air	Supply Air	After Wheel	After Whool	after Wheel
RA EWB Temp (F) (Defrost Mode)	60.1	, ,		After DX Coil Supply Air	After DX Coll Supply Air	Supply Air
Winter Off Wheel DB	61.7	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		2		
Winter Off Wheel WB	48.6		1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
Rotary Wheel Latent Efficiency	80.5%		Secretary (1974)			
Package Performance						
Reheat Method		None	None	Heat Pipe	Hot Water Reheat	None
Cooling LAT DB		54.9	54.9	64.1	72.6	54.9
Cooling LAT WB		54.6	54.6	58.1	61	54.6
Grains		63.2	63.2	62.7	61.8	63.2
Heating LAT		72	72	72	72	72
Dimensions Cabinet Length		110.65"	155.85"	144.59"	144.59"	139.12"
Cabinet Width		62.99"	62.99"	62.99"	62.99"	62.99"
Cabinet Height		70.71"	70.71"	70.71"	70.71"	70.71"
Air Cooled Unit Solution						
Condensing Unit		RXYQ144T	RXYQ144T	RXYQ120T	N/A	RXYQ144T
Branch Controller		N/A	N/A	N/A	N/A	N/A
Water Cooled Solution						
Condensing Unit		RWEQ144T	RWEQ144T	RWEQ120T	RWEQ144T	RWEQ144T
Branch Controller		N/A	N/A	N/A	N/A	N/A

**COOLING/HEATING WITH** 

WRAP AROUND HEAT PIPE

**COOLING/HEATING WITH** 

**ELECTRIC AUX HEAT** 

## **Key Specifiable Standard Features:**

- 1. ECM Motors, direct drive plenum fans, CFM airflow station on supply and return fans.
- 2. Enthalpy wheel is aluminum substrate with 3 angstrom molecular sieve desiccant, energy recover carry-over shall not exceed 0.45% as certified by a third party test agency.

COOLING/HEATING

- 3. Enthalpy wheel shall have stepper motor allowing speed control from 0.5 20 rpm. Unit controller shall manage rotor speed to optimize energy transfer, purge sector airflow, and avoid frosting.
- 4. Unit shall include factory installed and tested controls, field configurable to achieve specified operating functions. Controls shall maintain the airflow setpoint regardless of air density, filter loading or ESP.
- 5. Units shall be service accessible from one side. Filters shall be side loaded and seal against fixed frame on all four sides of each filter.
- 6. Cooling coil shall have minimum turndown of 7 15% based on Outdoor Unit Selection.
- 7. EKEXV-AHU Kit shall be able to accept entering air temps down to 41 Deg F to the Coin in Heat Pump operation.
- 8. Unit shall include factory engineered integration between AHU and Daikin EKEXV Kit. EKEXV Kit and EKEQMCBAV3 (Control Kit) shall be factory installed, including refrigerant piping of EXV and wiring of thermistors, EXVs, and controls.
- 9. Factory installed controlls shall provide BMS integration capability with BTL Certified BACnet, Lon, Modbus or N2.



COOLING/HEATING WITH

**CONDENSER WATER REHEAT** 



**COOLING/HEATING WITH** 

**ELECTRIC PRE-HEAT**