



Tranquility[®] Ducted Vertical Stack (TSL) Series

Models TSL09 - 36 60Hz - HFC - 410A

The Tranquility[®] Ducted Vertical Stack (TSL) Series offers an innovative, labor-saving solution for spaces where individual, quiet control of the heating and cooling system is important. Using EarthPure[®] (HFC-410A) refrigerant, the Tranquility[®] Ducted Vertical Stack (TSL) Series not only protects the environment, it does so while delivering unprecedented comfort, efficiency, and reliability.

Advantages of the Vertical TSL Series:

- Exceeds ASHRAE 90.1 efficiencies
- Removable chassis allows staged installation and ease of maintenance
- Double isolation compressor mounting for quiet operation
- ADA or remote-mounted controls available
- Choice of high efficiency constant volume ECM, constant torque ECM, or PSC fan motors
- Cabinet can slide over riser ball valve easily allowing riser stack to be completed first
- Microprocessor controls standard (optional DXM2 communicating controls)
- LonWorks, BACnet, Modbus and Johnson N2 compatibility options for DDC controls
- Unit Performance Sentinel performance monitoring system
- Top supply air discharge for ducted applications
- Stainless steel braided hose kits for connection from piping risers to chassis
- Wide variety of options including disconnect switch and extended range
- Optional industry leading Ultra-Quiet sound package
- Hybrid option offers choice for hydronic heating paired with water-cooled air conditioning
- Eight standard safeties
- Optional discharge air and return air dust cover protection
- Optional modulating motorized water valve in lieu of auto flow regulator and normal on/off motorized water valve
- Optional internal 200 PSI load matching pump (single pipe)
- Riser options for sweat or crimped connections
- Available with aesthetically designed flush mounted return air panel

Physical Data

Model	09	12	15	18	24	30
Compressor (1 Each)	Rotary			Scroll		
Factory Charge HFC-410A (oz) [kg]	35 [.99]		43 [2.69]	53 [3.31]	71 [4.44]	66 [4.13]
Motor and Blower						
PSC (HP) [W]	1/5 [149]		1/4 [186]		1/2 [373]	
ECM Constant Volume (HP) [W]	1/8 [93]		1/3 [249]		1/3 [249]	1/2 [373]
ECM Constant Torque (HP) [W]	1/4 [186]		1/3 [249]		1/2 [373]	
Blower Wheel Size (dia x w) - (in) [mm]	6.75 x 7.25 [165 x 184]		9.50 x 7.12 [241 x 180]		10.63 x 8.0 [270 x 203]	
Standard Filter - 1" [25.4 mm], (w x h) - (in) [mm]	14 x 30 [356 x 762]		16 x 20 [406 x 762]		20 x 32 [508 x 813]	
Coax Volume (Gallons) [l]	0.26 [.98]		0.36 [1.4]		0.60 [2.3]	
Hose Size (in)	1/2		3/4		1	
Weight						
Chassis - (lbs) [kg]	110 [50]	117 [53]	123 [56]	125 [57]	186 [84]	190 [86]
Cabinet - (lbs) [kg]	95 [43]		108 [49]		142 [64]	

Tested To ASHRAE/AHRI/ISO 13256-1 English (I-P) Units

Model with ECM Motor	Water Loop Heat Pump			
	Cooling 86°F		Heating 68°F	
	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP
TSL09	9300	14.8	12500	5.6
TSL12	12000	15.4	15500	5.3
TSL15	14600	16.3	18900	5.4
TSL18	17100	15.1	22300	5.4
TSL24	25000	16.4	305000	5.3
TSL30	28500	16.1	33500	5.3
TSL36	35000	15.0	40500	5.0

Cooling capacities based upon 27°C DB, 19°C WB entering air temperature. Heating capacities based upon 20°C DB, 15°C WB entering air temperature. All units AHRI/ISO/ASHRAE 13256-1 rated on high speed motor TAP. All ratings based upon operation at lower voltage of dual voltage rated models

Unit Size

Model		W	D	H
09 - 12	in.	17.0	17.0	65.0
	cm	43.2	43.2	165.1
15 - 18	in.	19.25	19.0	65.0
	cm	48.9	48.3	165.1
24 - 36	in.	24.25	24.0	65.0
	cm	61.6	61.0	165.1

Hybrid Series

Model with ECM Motor	Hydronic Heating Entering Air 70°			
	CFM	EWT (°F)	GPM	Capacity Btuh
TSL09	400	105	2.25	10200
TSL12	500	105	3.00	12400
TSL15	700	105	3.75	17000
TSL18	800	105	4.50	19300
TSL24	950	105	6.00	25700
TSL30	1150	105	7.50	31100
TSL36	1350	105	9.00	36000

Unit Size Hybrid Series

Model		W	D	H*
09 - 12	in.	17.0	20.0	88
	cm	43.2	50.8	
15 - 18	in.	19.3	22.0	88
	cm	48.9	55.9	
24 - 36	in.	24.3	27.0	88
	cm	61.6	68.6	

*Cabinets also available in 65" and 80"

