

PRODUCT DESIGN GUIDE Inteli-line[®] Vertical Stack Fan Coil with Slide-Out Chassis



January 2021



Inteli-line[®] Vertical Stack Fan Coil with Slide-Out Chassis



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Category	Position		Option Digit and Description
Product Family	1	W	W = Whalen Fan Coil
 Chassis Design	2	F	F - Fixed Chassis
		R	R - Slide-out Chassis
Coil Rows	3	С	C - 3-row Coil (WF Only)
		D	D - 4-row Coil (WF Only)
		Х	X - Slide-out Coil Chassis (WR Only)
Unit Capacity	4,5	03	03 - 300 CFM (0.75-ton)
		04	04 - 400 CFM (1.0-ton)
		06	06 - 600 CFM (1.5-ton)
		08	08 - 800 CFM (2.0-ton)
		10	10 - 1000 CFM (2.5-ton)
		12	12 - 1200 CFM (3.0-ton)
System Configuration	6	2	2P = 2-pipe Heating & Cooling
		4	4P = 4-pipe Heating & Cooling
		Т	ET = 2-pipe Total Electric Heating
		А	EA = 2-pipe Auxuliary Electric Heating
		С	CO = Cooling Only
		Н	HO = Heating Only
		К	K = DualPath Dedicated Outside Air with Electric Heat
		Y	Y = DualPath Dedicated Outside Air
Revision (Major)	7	A	A - 1st Generation
Unit Voltage	8	A	A - Single Point Power: 115-60-1
		В	B - Single Point Power: 208/230-60-1
		D	D - Single Point Power: 265-60-1
		E	E - Dual Point Power: 115-60-1
		F	F - Dual Point Power: 208/230-60-1
		Н	H - Dual Point Power: 265-60-1
Fan	9	S	S - Standard Motor
		Н	H - High Static Motor
		D	D - Constant Torque Motor - Standard on 800 - 1200
		G	G - Constant Torque Motor - 300 - 600

Cabinet Nomenclature



Category	Position		Option Digit and Description
Revision (Minor)	10	В	B - Revision B
Sound Attenuation	11	A	A - Standard Quiet Construction
		С	C - Standard Quiet Construction with Vibration Isolator Pad
Cabinet Height & Material	12	A	A - 88 inch tall - Galvanized
		В	B - 84 inch tall - Galvanized
		С	C - 80 inch tall - Galvanized
		D	D - 74 inch tall - Galvanized
		Е	E - Ducted Vertical - Galvanized
		F	F - 88 inch tall - Paint Grip
		G	G - 84 inch tall - Paint Grip
		Н	H - 80 inch tall - Paint Grip
		J	J - 74 inch tall - Paint Grip
		К	K - Ducted Vertical - Paint Grip
		R	R - 88 inch tall with Factory Mounted Cabinet Stand
		S	S - 84 inch tall with Factory Mounted Cabinet Stand
		Т	T - 80 inch tall with Factory Mounted Cabinet Stand
		U	U - 74 inch tall with Factory Mounted Cabinet Stand
		W	W - Ducted Vertical with Factory Mounted Cabinet Stand
		Z	Z - Special
Electric Heat	13	Х	X - No electric heat installed
		А	A - Electric Heat - 1.0 kW
		В	B - Electric Heat - 1.5 kW
		С	C - Electric Heat - 2.0 kW
		D	D - Electric Heat - 2.5 kW
		Е	E - Electric Heat - 3.0 kW
		F	F - Electric Heat - 3.5 kW
		G	G - Electric Heat - 4.0 kW
		Н	H - Electric Heat - 4.5 kW
		J	J - Electric Heat - 5.0 kW
		L	L - Electric Heat - 6.0 kW
		Ν	N - Electric Heat - 7.0 kW
		Q	Q - Electric Heat - 8.0 kW
		S	S - Electric Heat - 9.0 kW
		U	U - Electric Heat - 10.0 kW



Category	Position		Option Digit and Description
Electric Heat Voltage	14	Х	X - No electric heat installed
		А	A - Single Point Power: 115-60-1
		В	B - Single Point Power: 208/230-60-1
		D	D - Single Point Power: 265-60-1
		Е	E - Dual Point Power: 115-60-1
		F	F - Dual Point Power: 208/230-60-1
		Н	H - Dual Point Power: 265-60-1
Fan Control	15	Х	X - Field Provided Thermostat
		А	A - Thermostat - Single speed
		С	C - Thermostat - Single speed with 3-speed fan switch
		Н	H - Thermostat - Three speed
		К	K - DDC Wall Sensor
		L	L - Customer Supplied Speed Control
		Μ	M - Modulating Air Volume Motor
Supply Air Discharge	16	1	1 - 1 Supply Air Outlet
		2	2 - 2 Supply Air Outlets
		3	3 - 3 Supply Air Outlets
		Р	P - Knockout - All Sides
		Z	Z - Special Supply Air Discharge Configuration
Cabinet Protection	17	Х	X - No SA / RA covers installed
		А	A - Return Air Opening Cover
		В	B - Supply Air Opening Cover
		С	C - Supply & Return Air Opening Cover
		D	D - All Openings Shrink Wrapped
		Z	Z - Special
Power Termination / Entry Location	18	Х	X - Side Entry - Single Point Power: without unit disconnect
		А	A - Side Entry - Single Point Power: Unfused unit disconnect
		В	B - Side Entry - Single Point Power: Unit circuit breaker (Fused disconnect to protect unit only)
		С	C - Side Entry - Dual Point Power: Unfused unit disconnect on both circuit
		D	D - Side Entry - Dual Point Power: Unit circuit breaker on both circuits
		E	E - Side Entry - Dual Point Power: Unfused unit disconnect on unit & circuit breaker on E-heat
		F	F - Side Entry - Dual Point Power: Unit circuit breaker on unit & unfused disconnect on E-heat
		G	G - Top Entry - Single Point Power: Unfused unit disconnect

Cabinet Nomenclature



Category	Position		Option Digit and Description
Power Termination / Entry Location	18	Н	H - Top Entry - Single Point Power: Unit circuit breaker (Fused disconnect
		J	J - Top Entry - Dual Point Power: Unfused unit disconnect on both circuit
		К	K - Top Entry - Dual Point Power: Unit circuit breaker on both circuits
		L	L - Top Entry - Dual Point Power: Unfused unit disconnect on unit & circuit breaker on E-heat
		М	M - Top Entry - Dual Point Power: Unit circuit breaker on unit & unfused disconnect on E-heat
		Ν	N - Top Entry - Single Point Power: Without unit disconnect
Thermostat Extension	19	A	A - Unit mounted thermostat
		В	B - T-stat Extension w/plug for offset mounting - 5 ft
		С	C - T-stat Extension w/plug for offset mounting - 10 ft
		D	D - T-stat Extension w/plug for offset mounting - 20 ft
		Е	E - T-stat Extension w/plug for offset mounting - 30 ft
		F	F - T-stat Extension w/plug for offset mounting - 40 ft
		G	G - T-stat Extension w/plug for offset mounting - 50 ft
		Р	P - Panel Mount Thermostat / Wall Sensor
		3	3 - Factory Wired Remote Thermostat (Secondary Unit) - Right Side
		4	4 - Factory Wired Remote Thermostat (Secondary Unit) - Left Side
		5	5 - Factory Wired Remote Thermostat (Secondary Unit) - Top
		6	6 - Factory Wired Remote Thermostat - Front
		7	7 - Factory Wired Remote Thermostat - Right Side
		8	8 - Factory Wired Remote Thermostat - Left Side
		9	9 - Factory Wired Remote Thermostat - Top
Control Type	20	Х	X - Standard line voltage control package
		А	A - 24v / 40VA Transformer only - No fan relays
		В	B - 24v / 40VA Transformer with 3 fan relays
DDC Control	21	Х	X - No DDC control package installed
		А	A - Whalen DDC Control (IO Zone 583) with current switch
		В	B - Whalen DDC Control (IO Zone 583) no current switch
		С	C - Customer Supplied DDC with 2-way valve
		D	D - Customer Supplied DDC with 3-way valve
		Е	E - Customer supply: Discharge air sensor
		F	F - Larger Control Box for Customer Supplied DDC Controller
		Z	Z - Special DDC Option



Category	Position		Option Digit and Description
Drain Pan Options	22	А	A - Standard Stainless Steel P-trap Drain Pan
		В	B - Standard Stainless Steel P-trap Drain Pan with Condensate Safety Switch
		С	C - Standard Stainless Steel P-trap Drain Pan with Condensate Pump
		D	D - Standard Stainless Steel P-trap Drain Pan with Condensate Safety Switch and Condensate Pump
		Е	E - Standard Stainless Steel P-trap Drain Pan with Insulated Drain Pan
		F	F - Standard Stainless Steel P-trap Drain Pan with Insulated Drain Pan and Condensate Safety Switch
		G	G - Standard Stainless Steel P-trap Drain Pan with Insulated Drain Pan and Condensate Pump
		Н	H - Standard Stainless Steel P-trap Drain Pan with Insulated Drain Pan, Condensate Safety Switch, and Condensate Pump
		2	2 - Whalen Drain - Standard Stainless Steel Pan
		3	3 - Whalen Drain - Standard Stainless Steel Pan with Condensate Safety Switch
		4	4 - Whalen Drain - Standard Stainless Steel Pan with Condensate Pump
		5	5 - Whalen Drain - Standard Stainless Steel Pan with Condensate Safety Switch and Condensate Pump
		6	6 - Whalen Drain - Standard Stainless Steel Pan with Insulated Drain Pan
		7	7 - Whalen Drain - Standard Stainless Steel Pan with Insulated Drain Pan and Condensate Safety Switch
		8	8 - Whalen Drain - Standard Stainless Steel Pan with Insulated Drain Pan and Condensate Pump
		9	9 - Whalen Drain - Standard Stainless Steel Pan with Insulated Drain Pan, Condensate Safety Switch, and Condensate Pump
		Z	Z - Special
nsulation Option	23	A	A - 1/2" thick fiberglass insulation
		В	B - 1/2" thick Foil Face fiberglass insulation - Entire Unit
		С	C - 1/2" thick Closed Cell insulation - Entire Unit
		D	D - 1" thick fiberglass insulation in top of unit for sound reduction - 1/2"
Dutdoor Air	24	Х	X - No outside air opening installed
		А	A - 4" Internal Duct - top connection
		В	B - 4" Internal Duct - top connection with constant airflow regulator
		С	C - 5" Internal Duct - top connection
		D	D - 5" Internal Duct - top connection with constant airflow regulator
		Е	E - 4" round - rear connection
		F	F - 4" round - rear connection with constant airflow regulator
		G	G - 5" round - rear connection
		Н	H - 5" round - rear connection with constant airflow regulator
		J	J - 2x8 Opening in side of cabinet with Manual outdoor air damper



Cabinet Nomenclature

Category	Position		Option Digit and Description
Outdoor Air	24	К	K - 2x8 Opening in side of cabinet with Motorized outdoor air damper - (not for use with Internal Duct)
		L	L - 4" round - Left connection
		М	M - 4" round - Left connection with constant airflow regulator
		Ν	N - 5" round - Left connection
		Р	P - 5" round - Left connection with constant airflow regulator
		Q	Q - 4" round - Right connection
		R	R - 4" round - Right connection with constant airflow regulator
		S	S - 5" round - Right connection
		Т	T - 5" round - Right connection with constant airflow regulator
		Z	Z - Special
Filtration	25	Х	X - Field installed / field furnished 1" thick air filters
		А	A - 1" MERV 4 Throwaway



Category	Position	Position	Option Digit and Description
Product Family	1	В	B - Whalen Fan Coil Chassis
Unit Capacity	2,3	03	03 - 300 CFM (0.75-ton)
		04	04 - 400 CFM (1.0-ton)
		06	06 - 600 CFM (1.5-ton)
		08	08 - 800 CFM (2.0-ton)
		10	10 - 1000 CFM (2.5-ton)
		12	12 - 1200 CFM (3.0-ton)
System Configuration	4	2	2 - 2-pipe Heating or Cooling
		4	4 - 4-pipe Heating & Cooling
		Т	T - Total Electric Heating
		А	A - Auxuliary Electric Heating
		С	C - Cooling Only
		Н	H - Heating Only
		К	K - DualPath Dedicated Outside Air with Electric Heat
		Y	Y - DualPath Dedicated Outside Air
Coil Package Configuration	5,6	20	20 - 2 Row Cooling Only
		21	21 - 2 Row Cooling & 1 Row Heating
		22	22 - 2 Row Cooling & 2 Row Heating
		30	30 - 3 Row Cooling Only
		31	31 - 3 Row Cooling & 1 Row Heating
		32	32 - 3 Row Cooling & 2 Row Heating
		40	40 - 4 Row Cooling Only
		41	41 - 4 Row Cooling & 1 Row Heating
		42	42 - 4 Row Cooling & 2 Row Heating
		50	50 - 5 Row Cooling Only
		51	51 - 5 Row Cooling & 1 Row Heating
		60	60 - 6 Row Cooling Only
		4Y	4Y - 4-row split coil with DualPath dedicated OA
		5Y	5Y - 5-row split coil with DualPath dedicated OA
Revision	7	A	A - 1st Revision
Coil Protection	8	A	A - Standard (Galvanized) Chassis & Galvanized Coil Casing with Copper tube / Aluminum fin
		В	B - Standard (Galvanized) Chassis & Galvanized Coil Casing with Tin Dipped Hairpins



Category	Position	Position	Option Digit and Description
Coil Protection	8	C	C - Standard (Galvanized) Chassis & Galvanized Coil Casing with Epoxy Coating (E-Coating)
		F	F - Standard (Galvanized) Chassis & Stainless Steel Coil Casing with Copper tube / Aluminum fin
		G	G - Standard (Galvanized) Chassis & Stainless Steel Coil Casing with Tin Dipped Hairpins
		Н	H - Standard (Galvanized) Chassis & Stainless Steel Coil Casing with Epoxy Coating (E-Coating)
Valve Actuator Voltage	9	Х	X - No control valve installed
		L	L - 24 VAC
		А	A - 115 VAC
		В	B - 208-230 VAC
		D	D - 265 VAC
Valve Actuator Operation	10	Х	X - No control valve installed
		1	1 - 2-Pipe Normally Closed
		2	2 - 2-Pipe Normally Open
		3	3 - 2-Pipe Non-spring return
		4	4 - 4-Pipe Normally Closed (CW) / Normally Closed (HW)
		5	5 - 4-Pipe Normally Closed (CW) / Normally Open (HW)
		6	6 - 4-Pipe Normally Open (CW) / Normally Open (HW)
		7	7 - 4-Pipe Normally Open (CW) / Normally Closed (HW)
		8	8 - 4-Pipe Non-spring return (CW) / Non-spring return (HW)
		Z	Z - Special
Control Valve - 2-pipe unit	11	Х	X - No control valve installed
		А	A - 2-way valve, on/off, std diff
		В	B - 2-way valve, on/off, 60 psi diff
		С	C - 2-way valve, on/off, 125 psi diff
		D	D - 2-way valve, modulating (proportional 2-10), std diff
		E	E - 2-way valve, modulating (floating point), std diff
		F	F - 2-way valve, modulating (2-10), 60 psi diff
		Н	H - Pressure Independent Control Valve
		J	J - 3-way valve, on/off, std diff
		К	K - 3-way valve, on/off, 60 psi diff
		L	L - 3-way valve, on/off, 125 psi diff
		М	M - 3-way valve, modulating (proportional 2-10), std diff
		Ν	N - 3-way valve, modulating (floating point), std diff
		Р	P - 3-way valve, modulating (2-10), 60 psi diff



Category	Position	Position	Option Digit and Description
Control Valve - 2-pipe unit	11	Q	Q - 3-way valve, on/off, std diff with manual balancing valve in bypass
		R	R - 3-way valve, on/off, 60 psi diff with manual balancing valve in bypass
		S	S - 3-way valve, on/off, 125 psi diff with manual balancing valve in bypass
		т	T - 3-way valve, modulating (proportional 2-10), std diff with manual balancing valve in bypass
		U	U - 3-way valve, modulating (floating point), std diff with manual balancing valve in bypass
		V	V - 3-way valve, modulating (2-10), 60 psi diff with manual balancing valve in bypass
		W	W - Factory installed valve supplied by customer
Flow Control - 2-pipe unit	12	X	X - No flow control device installed
		С	C - Automatic Flow Valve - Griswold K with PT Ports
		D	D - Automatic Flow Valve - Hays
		E	E - Automatic Flow Valve - Hays with PT Ports
		F	F - Automatic Flow Valve - Flow Design with PT Ports
		Н	H - Manual Flow Control Valve
		Q	Q - Pressure Independent Control Valve
Water Flow - 2-pipe unit	13-16	XXXX	XXXX - Manual valve or no flow control device installed
		0063	0063 - 0.63 GPM
		0075	0075 - 0.75 GPM
		0100	0100 - 1.0 GPM
		0113	0113 - 1.13 GPM
		0125	0125 - 1.25 GPM
		0150	0150 - 1.5 GPM
		0163	0163 - 1.63 GPM
		0175	0175 - 1.75 GPM
		0200	0200 - 2.0 GPM
		0225	0225 - 2.25 GPM
		0250	0250 - 2.5 GPM
		0300	0300 - 3.0 GPM
		0325	0325 - 3.25 GPM
		0350	0350 - 3.5 GPM
		0400	0400 - 4.0 GPM
		0450	0450 - 4.5 GPM
		0500	0500 - 5.0 GPM
		0550	0550 - 5.5 GPM
		0600	0600 - 6.0 GPM



Category	Position	Position	Option Digit and Description
Water Flow - 2-pipe unit	13-16	0650	0650 - 6.5 GPM
		0700	0700 - 7.0 GPM
		0750	0750 - 7.5 GPM
		0800	0800 - 8.0 GPM
		0900	0900 - 9.0 GPM
		1000	1000 - 10.0 GPM
Access Ports - 2-pipe	17	Х	X - No access ports installed
		А	A - Pressure / Temperature Port (Supply)
		В	B - Pressure / Temperature Port (Return)
		С	C - Pressure / Temperature Port (Supply & Return)
		D	D - Y-strainer
		E	E - Pressure / Temperature Port (Supply) and Y-strainer
		F	F - Pressure / Temperature Port (Return) and Y-strainer
		G	G - Pressure / Temperature Port (Supply & Return) and Y-strainer
		Н	H - Y-strainer with blowdown
		J	J - Pressure / Temperature Port (Supply) and Y-strainer with blowdown
		К	K - Pressure / Temperature Port (Return) and Y-strainer with blowdown
		L	L - Pressure / Temperature Port (Supply & Return) and Y-strainer with blowdown
Air Vent - 2-pipe unit	18	Х	X - No air vent installed
		А	A - Manual Air Vent
		В	B - Automatic Air Vent
		F	F - Manual Air Vent & Drain Petcock
		G	G - Automatic Air Vent and Drain Petcock
Water Connections	19	C	C - MPT (Straight)
Control Valve - 4-pipe	20	Х	X - No control valve installed
		А	A - 2-way valve, on/off, std diff
		В	B - 2-way valve, on/off, 60 psi diff
		С	C - 2-way valve, on/off, 125 psi diff
		D	D - 2-way valve, modulating (proportional 2-10), std diff
		E	E - 2-way valve, modulating (floating point), std diff
		F	F - 2-way valve, modulating (0-10), 60 psi diff
		Н	H - Pressure Independent Control Valve
		J	J - 3-way valve, on/off, std diff
		К	K - 3-way valve, on/off, 60 psi diff
		L	L - 3-way valve, on/off, 125 psi diff



Category	Position	Position	Option Digit and Description
Control Valve - 4-pipe	20	М	M - 3-way valve, modulating (proportional 2-10), std diff
		Ν	N - 3-way valve, modulating (floating point), std diff
		Р	P - 3-way valve, modulating (0-10), 60 psi diff
		Q	Q - 3-way valve, on/off, std diff with manual balancing valve in bypass
		R	R - 3-way valve, on/off, 60 psi diff with manual balancing valve in bypass
		S	S - 3-way valve, on/off, 125 psi diff with manual balancing valve in bypass
		Т	T - 3-way valve, modulating (proportional 2-10), std diff with manual balancing valve in bypass
		U	U - 3-way valve, modulating (floating point), std diff with manual balancing valve in bypass
		V	V - 3-way valve, modulating (0-10), 60 psi diff with manual balancing valve in bypass
		W	W - Factory installed valve supplied by customer
Flow Control - 4-pipe	21	Х	X - No flow control device installed
		С	C - Automatic Flow Valve - Griswold K with PT Ports
		D	D - Automatic Flow Valve - Hays
		E	E - Automatic Flow Valve - Hays with PT Ports
		F	F - Automatic Flow Valve - Flow Design
		Н	H - Manual Flow Control Valve
		Q	Q - Pressure Independent Control Valve
Water Flow - 4-pipe	22-25	XXXX	XXXX - Manual valve or no flow control device installed
		0025	0025 - 0.25 GPM
		0033'	0033' - 0.33 GPM
		0050	0050 - 0.5 GPM
		0055	0055 - 0.55 GPM
		0063	0063 - 0.63 GPM
		0075	0075 - 0.75 GPM
		0100	0100 - 1.0 GPM
		0113	0113 - 1.13 GPM
		0125	0125 - 1.25 GPM
		0150	0150 - 1.5 GPM
		0163	0163 - 1.63 GPM
		0175	0175 - 1.75 GPM
		0200	0200 - 2.0 GPM
		0225	0225 - 2.25 GPM
		0250	0250 - 2.5 GPM
		0300	0300 - 3.0 GPM
		0325	0325 - 3.25 GPM
		0350	0350 - 3.5 GPM
		0400	0400 - 4.0 GPM



Category	Position	Position	Option Digit and Description
Water Flow - 4-pipe	22-25	0450	0450 - 4.5 GPM
		0500	0500 - 5.0 GPM
		0550	0550 - 5.5 GPM
		0600	0600 - 6.0 GPM
		0650	0650 - 6.5 GPM
Access Ports - 4-pipe	26	Х	X - No access ports installed
		А	A - Pressure / Temperature Port (Supply)
		В	B - Pressure / Temperature Port (Return)
		С	C - Pressure / Temperature Port (Supply & Return)
		D	D - Y-strainer
		E	E - Pressure / Temperature Port (Supply) and Y-strainer
		F	F - Pressure / Temperature Port (Return) and Y-strainer
		G	G - Pressure / Temperature Port (Supply & Return) and Y-strainer
		Н	H - Y-strainer with blowdown
		J	J - Pressure / Temperature Port (Supply) and Y-strainer with blowdown
		К	K - Pressure / Temperature Port (Return) and Y-strainer with blowdowr
		L	L - Pressure / Temperature Port (Supply & Return) and Y-strainer with blowdown
		Z	Z - Special
Air Vent - 4-pipe	27	Х	X - No air vent installed
		А	A - Manual Air Vent
		В	B - Automatic Air Vent
		F	F - Manual Air Vent & Drain Petcock
		G	G - Automatic Air Vent and Drain Petcock
Air / Fluid Sensor	28	Х	X - No sensors installed
		А	A - Return Air Sensor
		В	B - Supply Air Sensor
		С	C - Return & Supply Air Sensor
Coil height	29	A	A - 12" tall
-		В	B - 14" tall
		С	C - 16" tall
		G	G - 24" tall
		J	J - 28" tall
		К	K - 30" tall
		Р	P - 19" tall
		Q	Q - 35" tall
Air / Fluid Sensor	30	Х	X - Future Option



Table 1: AHRI Performance Ratings – ANSI/AHRI Standard 440

3-Row Air Coil with Standard Blower Motor												
	AHRI Certified		GPM	Cooling Capacity								
Whalen Catalog Name	Reference Number	SCFM		Coil Rows	EWT (°F)	TC (Btu/hr)	SC (Btu/hr)					
WRX-03 3-Row PSC	10150533	356	2.1	3	45	10,100	7,300					
WRX-04 3-Row PSC	10098898	440	3.1	3	45	14,500	9,800					
WRX-06 3-Row PSC	10152062	670	4.2	3	45	19,700	14,300					
WRX-08 3-Row PSC	10190368	770	5.0	3	45	22,700	16,100					
WRX-10 3-Row ECM	10156325	1020	6.8	3	45	33,000	23,500					
WRX-12 3-Row ECM	10157406	1133	8.0	3	45	38,700	28,000					

4-Row Air Coil with Standard Blower Motor											
	AHRI Certified			Cooling Capacity							
Whalen Catalog Name	Reference Number	SCFM	GPM	Coil Rows	EWT (°F)	TC (Btu/hr)	SC (Btu/hr)				
WRX-03 4-Row PSC	10544545	358	2.5	4	45	11,900	7,900				
WRX-04 4-Row PSC	10190321	435	3.3	4	45	16,000	10,700				
WRX-06 4-Row PSC	10152709	640	4.4	4	45	20,600	14,200				
WRX-08 4-Row PSC	10155868	770	5.6	4	45	26,300	18,100				
WRX-10 4-Row ECM	10156328	1020	7.3	4	45	35,300	25,000				
WRX-12 4-Row ECM	10157407	1133	8.8	4	45	43,200	30,500				

Cooling performance ratings based upon 80°F DB, 67°F WB entering air temperature and LWT = 55°F.



Features & Benefits

- With The Whalen Company's vertical stack fan coil units, you can choose from multiple system configurations to meet your application.
- 2-pipe Fan Coil The simplest of configurations, the 2-pipe fan cycle units have one (1) supply and one (1) return riser. The supply riser provides either cold or hot water to the unit depending on the time of year. When the occupied space needs heating or cooling, the fan cycles on and off to provide comfort conditioning to the occupied space.
- 2-pipe Auxiliary Electric For applications where a small amount of supplemental heat is required, an auxiliary electric heater is added. When the occupied space needs cooling, the heating element is disengaged and the unit provides comfort cooling to the space.
- **2-pipe Total Electric** For applications where space heating is accomplished solely via an electric heating element, the heating element is sized based on the particular building requirement. When the occupied space needs cooling, the heating element is disengaged and the unit provides comfort cooling to the space.
- **4-pipe Heating & Cooling** Four-pipe heating & cooling units have two (2) supply risers and two (2) return risers. This allows either hot or cold water to enter the unit at any given time. In applications where it is necessary to heat and cool different areas of a building at the same time, due to differences in internal heat loss or heat gains, the four-pipe riser fan coil unit is the best option.

Vertical Stack Fan Coil Options

- **Constant Torque EC Motor** Standard on sizes 10 and 12. Constant torque ECMs provide 5 available motor speed settings and will maintain a constant motor torque as external static pressure in the system increases. As the system static pressure increases, reduction in fan airflow with a constant torque ECM is minor.
- **PSC** Are standard on all units, except for sizes 10 and 12. The supplied motor is available in single or 3-speed configurations.

- **Supply Air Grille** Diffusers are constructed of aluminum with a mill finish or an optional painted finish, available in three variations: single deflection, double deflection, double deflection with opposed blade damper. Damper blades are positioned vertically and adjust easily for directing the unit discharge air.
- **Return air panel** Standard offering includes a clear anodized extruded aluminum air grille. Factorywhite paint is optional. A clear anodized extruded aluminum hinged air grille is optional, and factory white paint is optional. A hinged air grille, aluminum or factory-white finish, is optional having louvers covering the lower portion of the door, leaving the upper portion available for an optional hole to mount a thermostat.
- **Unfused disconnect** Units are available with an optional non-fused disconnect switch, located on the unit front behind the return air panel. The disconnect switch is used to break power to the unit for safety and ease of service.
- **Circuit breaker** Units are available with an optional circuit breaker. The circuit breaker is used to break power to the unit for safety and ease of service.
- **T-stat extension** Low voltage wire harness ranging from 5 to 20 foot ending with 9-Pin Molex quick connector. The extension can exit the cabinet on the top or either side.
- **Condensate overflow** The switch is designed to sense when condensate water levels in the drain pan become excessively high. When high condensate water levels are detected during cooling or dehumidification mode, the unit is shut down to prevent additional condensation entering the drain pan.
- **Condensate pump** The internal condensate pump allows the unit to be located virtually wherever desired. The internal condensate pump serves as an effective means for disposing of condensate generated during cooling operation. A condensate pump should be designed and installed at the unit to pump condensate to a building drain.

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- **Vibration isolation pad** Vibration isolator pads dampen vibration from the fan motor. The ½" thick neoprene isolation pads are attached to the bottom of the cabinet at the factory eliminating any additional field labor.
- **Hot Water Coil** Available on 4-pipe units only, these coils are available to provide heating in a 4-pipe system configuration.
- **3-way valve** Available on 2-pipe and 4-pipe heating and cooling coils, these 1/2" valves are normally closed to the coil as standard and will isolate the coil during a loss of power. Normally open configurations are simply achieved by turning the valve around. Upon response to a signal from the controller, the valve will be either fully open allowing full flow to the coil or fully closed to the coil diverting full flow to the bypass line.
- Automatic flow control The automatic flow control device includes a ball valve cast in the valve body and is located on the return water pipe. The flow control valve consists of a stainless steel/brass flow cartridge and a contoured orifice plate. As the pressure drop increases, the flow cartridge will move into the contoured orifice plate to decrease the flow. This flexing action provides a constant flow, independent of pressure (2-80 psi), makes it difficult to clog and resistant to cavitation damage. This valve sets flow through the coil without any action required by a system balancer.
- Manual flow control A manual flow control valve, acts as both a flow setting device and a stop valve, taking the place of a ball valve. This valve allows water flow through the unit and can be set quickly and accurately.
- **O.A. motorized OA damper** The control can be configured to operate as a ventilation damper in a 2-position ventilation mode to provide the minimum ventilation requirements during occupied periods. This control operation still utilizes the on/off damper actuator.
- Filter Units come standard with a MERV 4 one-inch glass fiber throwaway filter. High efficiency MERV 8, MERV 11 and MERV 13 throw away filters as well as

a washable aluminum mesh filter are also available as an option.

- **Air vents** Optional air vents are available for installation in each riser to vent incidental air trapped within the riser. Air vents are available in various configurations including: manual, manual piped to drain, manual piped to drain with a ball valve, or automatic.
- **Finished Cabinet** Available for applications where drywall is not used to enclose the unit, finished cabinets, top skirts, & bottom skirts are available to conceal the unit piping and provide a finished appearance. Panels can be field painted to match the interior room color.

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Table 2: Inteli-line® Vertical Stack Fan Coil with Slide-Out Chassis Thermostats for Standalone Operation

		N					1
	Feature	TB6575A1000	TB8575A1000	T180	SC700V	SC700LV	TB7100A1000
Mounting	Electrical Box	•	•	•	•	•	•
Style	Drywall	•	•	•	•	•	•
	Backlit LCD	•	•	•			•
	Temperature & Setpoint	•	•	•			•
Display	Operating Mode	•	•	•			•
	Fan Status	•	•	•			•
	Remote Setback	•	•	•			•
	Non-programmable	•	•		•	•	
Oneration	Programmable			7 day			7 day
Operation	Sensing	Local or Remote	Local or Remote	Local or Remote	Local or Remote	Local or Remote	Local or Remote
	Setpoint Range	50°F to 90°F	50°F to 90°F	50°F to 90°F	50°F to 90°F	50°F to 90°F	50°F to 90°F
Changester	Manual	•	•				•
Changeover	Automatic	•		•	•	•	•
	Heating and Cooling				•	•	•
Operating	Heating or Cooling	•	•	•			
Modes	Fan Only Operation	•	•	•			•
	Fan Speeds	3	3	3	3	3	3
Stages	Heating	1	1	1	1	1	2
Jiages	Cooling	1	1	1	24 VAC	24 VAC	1
Voltage	Operating Voltage	120 - 240 VAC	20 - 30 VAC	24 VAC, 110 - 277 VAC	110 - 277 VAC	24 VAC	20 - 30 VAC
	Room Temperature	•	•	•	•	•	•
Application	2-Pipe	•	•	•	•	•	•
Application	4-Pipe	•	•	•	•	•	•



Multi-Protocol DDC Controller

The Whalen Company fan coils are available with a factory installed multi-protocol communication module that is designed to communicate with a building automation system (BAS). The I/O Zone 583 DDC controller is designed to allow the integration of Whalen fan coil equipment into DDC



systems. The I/O Zone 583 DDC controller has the ability to communicate through a choice of three widely used protocols: BACnet MS/ TP, Johnson Controls N2, and Modbus. The protocol of choice for the particular system is selected by simply con-

figuring DIP switches on the DDC control. This flexibility allows one controller to be used in a multitude of buildings which use any of these three common protocols. The control serves as a node of information processing between the Whalen fan coil and the DDC network. The I/O Zone 583 DDC controller is available for applications with modulating valves / fans requiring 0-10 VDC output.

- Multi-Protocol communications provides DDC system flexibility.
- Supports native BACnet MS/TP communications the ASHRAE standard protocol for interoperability.
- Supports Johnson Controls N2 communications for integration into Johnson Controls Metasys DDC systems.
- Supports Modbus communications for integration into Modbus DDC networks.
- Four baud rate levels offer flexible communications speeds of 9600, 19.2k, 38.4k, or 76.8k baud. Enables building operators to easily upgrade firmware in the future.
- Removable field wiring connectors for ease of field service.
- Three (3) analog outputs and five (5) digital outputs.
- Six (6) inputs. Hardware specs change slightly for I/O Zone 583. Main differences are number of Inputs and Outputs.
- Stand-alone or BAS integrated operational modes.

Features & Benefits

Power:	24Vac +-10%, 50 or 60Hz, 18VA power consumption, 26Vdc, Single Class 2 source only, 100 VA or less.
Physical size:	5-1/16" [129mm] width x 5-11/16" [144mm] height x 1-1/2" [38mm] (minimum panel depth).
Housing material:	Rugged GE C2905HG Cycoloy plastic housing – complies with UL 94 V-O.
Environmental:	0 to 130 degrees F, 10% to 95% non-condensing.
Protection:	Built-in surge transient protection circuitry. Module protected by Internal solid state Polyswitches on incoming power and network connections.
Digital Outputs:	5 digital outputs, relay contacts rated at 1 A resistive @ 24 Vac, configured as dry contact, normally open.
Universal inputs:	6 universal inputs. Inputs 1-6 configurable as thermistor or dry contact; inputs 1 and 2 also configurable as 0-5 Vdc type inputs.
Communication ports	5: <i>Port 1:</i> Jumper configurable for ARCNET or EIA-485 communication. In ARCNET mode, the port speaks BACnet (at 156k bps). In EIA-485 mode, the communication protocol and baud rate desired are DIP switch selectable between BACnet MS/TP, Modbus RTU, or N2. <i>Rnet port:</i> Interface with a BACview5, BACview6, RS sensors, or local laptop.
Optional card port:	LonWorks Option Card for connection to Free Topology LON networks (TP/FT-10 Channel).

Hardware Specification (Hardware specs change slightly for I/O Zone 583. Main differences are number of Inputs and Outputs.)



Table 3: Physical Data Table

Component			Мо	dels		
·	WRX-03	WRX-04	WRX-06	WRX-08	WRX-10	WRX-12
Nominal Tonnage	0.75	1.00	1.50	2.00	2.50	3.00
3-ROW COOLING PERFORMANCE						
Airflow (CFM)	300	400	600	800	1000	1200
Entering Air Temp DB / WB (°F)	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67
Total Cooling (MBTUH)	10.3	15.3	20.3	24.6	30.5	36.7
Sensible Cooling (MBTUH)	8.4	11.9	14.8	19.7	24.2	29.1
Entering Water Temp (°F)	45	45	45	45	45	45
Temp Rise (°F)	10	10	10	10	10	10
Pressure Drop (ft. wg.)	18.6	25.8	14.9	20.5	18.8	16.2
B-ROW HEATING PERFORMANCE						
Heating Capacity (MBTUH)	8.5	18.2	24.2	30.5	42.3	49.5
Entering Air Temp DB (°F)	70	70	70	70	70	70
Entering Water Temp (°F)	120	120	120	120	120	120
Temp Rise (°F)	15	15	15	15	15	15
Pressure Drop (ft. wg.)	11.1	13.5	8.9	12.3	14.9	12.1
DIMENSIONS (inches)						
Width (in.)	16	16	18	18	24	24
Depth (in.)	18	18	20	20	20	20
Height (in.)	88	88	88	88	88	88
OPERATING WEIGHT (lbs.)						
Cabinet	135	135	153	153	184	184
Chassis - 3-Row Coil	25	25	43	43	58	58
Chassis - 4-Row Coil	30	30	48	48	63	63
SHIPPING WEIGHT (lbs.)			10	10		
Cabinet	147	147	165	165	196	196
Chassis - 3-Row Coil	14	20	26	33	50	56
Chassis - 4-Row Coil	19	25	31	38	55	61
WATER COIL DATA	10		0.			
Cooling Coil (rows)	3, 4, 5	3, 4, 5	3, 4, 5	3, 4, 5	3, 4, 5	3, 4, 5
Heating Coil (rows)	0, 1, 2	0, 1, 2	0, 1, 2	0, 1, 2	0, 1, 2	0, 1, 2
SUPPLY FAN DATA	0, 1, 2	0, 1, 2	0, 1, 2	0, 1, 2	0, 1, 2	0, 1, 2
Quantity	1	1	1	1	1	1
Fan Size (D x W)	7.62 x 5	8 x 5	8.5 x 7	9 x 8	9 x 4.8	9 x 5.6
Fan type	Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal
Maximum E.S.P.	Centinugai	Centinugai	Centinugai	Centinugai	Centinugai	Centinugai
PSC Motor	0.20	0.30	0.30	0.35	NA	NA
ECM Motor	0.25	0.40	0.45	0.50	0.50	0.60
Standard Static PSC MOTOR HP	0.20	0.40	0.45	0.50	0.50	0.00
Voltage - 115/60/1	1/20	1/12	1/12	1/6	NA	NA
Voltage - 208-230/60/1	1/15	1/12	1/12	1/5	NA	NA
Voltage - 265/60/1	1/20	1/15	1/12	1/7	NA	NA
Constant Torque ECM MOTOR HP	1/20	1/15	1/10	1/7		INA I
· · ·	1/4	1/4	1/4	1/0	1/0	1/0
Voltage - 115/60/1	1/4	1/4	1/4	1/2	1/2	1/2
Voltage - 208-230/60/1	1/4			1/2	1/2	1/2 1/2
Voltage - 265/60/1	1/4	1/4	1/4	1/2	1/2	1/2
			10	40		
Return Air Opening Width	14	14	16	16	22	22
Return Air Opening Height	48	56	56	60	64	68
	44.0	44 10	44 44	11.10	NUE	
1 Grille (W x H)	14 x 8	14 x 10	14 x 14	14 x 18		mmended
2 Grille (W x H)	14 x 6	14 x 6	14 x 8	14 x 10	Consult Factory	Consult Factor
3 Grille (W x H)	14 x 6	14 x 6	14 x 8	14 x 10	Consult Factory	Consult Factor
Top Duct (W x H)	12 x 10	12 x 12	14 x 14	16 x 14	16 x 16	16 x 16
FILTERS						
Size (in.)	13 x 24 1	13 x 24 x 1	15 x 28 x 1	15 x 28 x 1	21 x 36 x 1	21 x 36 x 1
Quantity	1	1	1	1	1	1



Standard Range Units:

Units are designed to start in an ambient of $50^{\circ}F$ (10°C) with entering air at $50^{\circ}F$ (10°C), with entering water at $50^{\circ}F$ (10°C), with nominal air flow and water flow (3.0 GPM/Ton), for initial start-up in heating and cooling mode.

Note: This is not a normal or continuous operating condition. It is assumed that such start-up is for the purpose of bringing the building space up to occupancy temperature and operating for extended periods of time.

Environment

This equipment is designed for indoor installation only. Unconditioned locations such as attics, garages, etc., generally will not provide sufficient protection against extremes in temperature and/or humidity, and equipment performance, reliability, and service life may be adversely affected.

Table 4: Unit Voltage Limitations

Voltage	Minimum	Maximum		
208/230-60-1	197	252		
265-60-1	239	292		

Table 5: WRX Continuous Operating Limits

	Entering Fluid °F								
Mode	2-P	lipe	4-Pipe						
	Min	Max	Min	Max					
Cooling	40	50	40	50					
Heating	120	150	130	180					

Table 6: WRX Start-up Operating Limits

	Entering Fluid °F								
Mode	2-P	ipe	4-Pipe						
	Min	Max	Min	Max					
Cooling	40	65	40	65					
Heating	85	150	85	180					

Power supply

A voltage variation of +/-10% of nameplate voltage is acceptable.



WRX 2P/4P Cooling Performance Data - 4 Row

			Cooling Performance - 80°F / 67°F				Cooli	ng Perform	ance - 78°F	/ 65°F	Cooling Performance - 75°F / 63°F			
Size	EWT (°F)	Delta T (°F)	Total Capacity	Sensible Capacity	GPM	Pressure Drop (Ft)	Total Capacity	Sensible Capacity	GPM	Pressure Drop (Ft)	Total Capacity	Sensible Capacity	GPM	Pressure Drop (Ft)
		10	13.8	10.1	2.8	22.9	12.5	9.5	2.5	19.2	10.6	8.4	2.1	14.2
		12	12.7	9.6	2.1	14.0	11.5	9.0	1.9	11.8	9.8	8.0	1.6	8.8
WRX-032P	45	14	11.6	9.1	1.7	9.1	10.6	8.5	1.5	7.7	9.0	7.6	1.3	5.7
		16	10.7	8.6	1.3	6.2	9.7	8.1	1.2	5.3	8.2	7.2	1.0	3.9
		10	16.5	11.2	3.3	12.0	15.0	10.5	3.0	10.0	12.7	9.3	2.5	7.4
		12	14.8	10.5	2.5	7.0	13.4	9.8	2.2	5.9	11.4	8.7	1.9	4.4
WRX-042P	45	14	13.4	10.0	1.9	4.4	12.1	9.4	1.7	3.7	10.3	8.3	1.5	2.8
		16	12.2	9.7	1.5	2.9	11.1	9.1	1.4	2.5	9.4	8.0	1.2	1.9
		10	22.0	15.4	4.4	15.5	20.0	14.4	4.0	12.8	16.9	12.8	3.4	9.2
		12	20.1	14.7	3.4	9.1	18.3	13.8	3.0	7.5	15.5	12.3	2.6	5.5
WRX-062P	45	14	17.9	13.9	2.6	5.4	16.3	13.0	2.3	4.5	13.8	11.6	2.0	3.3
		16	15.4	12.8	1.9	3.2	13.9	12.0	1.7	2.7	11.8	10.7	1.5	2.0
		10	29.2	21.5	5.8	25.6	27.1	20.0	5.4	22.1	23.8	17.3	4.7	17.3
		12	27.4	20.8	4.5	16.0	25.4	19.3	4.2	13.9	22.3	16.7	3.7	10.9
WRX-082P	45	14	25.8	20.1	3.7	10.7	23.9	18.7	3.4	9.3	20.9	16.2	3.0	7.4
		16	24.3	19.4	3.0	7.6	22.5	18.1	2.8	6.6	19.8	15.6	2.5	5.3
		10	36.7	26.7	7.3	16.0	34.0	24.8	6.8	13.9	29.8	21.5	5.9	10.8
		12	34.0	25.5	5.6	9.9	31.5	23.7	5.2	8.5	27.7	20.6	4.6	6.7
WRX-102P	45	14	31.6	24.4	4.5	6.4	29.3	22.7	4.2	5.5	25.7	19.6	3.7	4.3
		16	29.4	23.3	3.7	4.3	27.2	21.7	3.4	3.8	23.9	18.8	3.0	2.9
		10	44.9	32.4	8.9	26.9	41.6	30.1	8.3	23.3	36.5	26.1	7.3	18.2
	45	12	41.9	31.0	6.9	16.7	38.8	28.9	6.4	14.5	34.1	25.0	5.7	11.3
WRX-122P	45	14	39.1	29.8	5.6	11.0	36.2	27.7	5.1	9.5	31.8	24.0	4.5	7.5
		16	36.5	28.5	4.5	7.5	33.8	26.5	4.2	6.5	29.7	23.0	3.7	5.1

WRX 2P Heating Performance Data - 4 Row

			Heating	Entering A	Air - 65°F	Heating	Entering A	Air - 70°F	Heating Entering Air - 75°F		
Size	EWT (°F)	Delta T (°F)	Total Capacity	GPM	Pressure Drop (Ft)	Total Capacity	GPM	Pressure Drop (Ft)	Total Capacity	GPM	Pressure Drop (Ft)
		15	25.5	3.4	29.2	23.0	3.1	24.0	20.5	2.7	19.4
	1.10	20	23.9	2.4	15.3	21.5	2.2	12.6	19.2	1.9	10.2
WRX-032P	140	25	22.1	1.8	8.9	19.9	1.6	7.3	17.7	1.4	6.0
		30	20.0	1.3	5.4	18.0	1.2	4.5	16.1	1.1	3.6
		15	28.8	3.8	13.8	25.9	3.5	11.4	23.1	3.1	9.2
WRX-042P	1.10	20	27.7	2.8	7.6	24.9	2.5	6.2	22.2	2.2	5.0
	140	25	26.3	2.1	4.6	23.7	1.9	3.8	21.1	1.7	3.1
		30	24.6	1.6	2.9	22.1	1.5	2.4	19.7	1.3	2.0
		15	44.6	5.9	24.3	40.1	5.3	19.7	35.7	4.8	15.7
	1 4 0	20	42.6	4.3	12.6	38.3	3.8	10.2	34.1	3.4	8.2
WRX-062P	140	25	40.0	3.2	7.2	36.0	2.9	5.9	32.1	2.6	4.7
		30	36.8	2.5	4.3	33.1	2.2	3.6	29.5	2.0	2.9
		15	59.6	8.1	41.8	53.7	7.3	34.1	47.8	6.5	27.2
	1.10	20	56.2	5.7	21.4	50.5	5.1	17.5	45.0	4.6	14.0
WRX-082P	140	25	52.0	4.2	12.1	46.8	3.8	10.0	41.7	3.4	8.1
		30	47.3	3.2	7.3	42.6	2.9	6.0	37.9	2.6	4.9
		15	72.3	9.8	24.5	65.1	8.8	20.0	58.0	7.8	16.0
	1 4 0	20	68.5	7.0	12.7	61.6	6.3	10.4	54.9	5.6	8.3
WRX-102P	140	25	63.7	5.2	7.2	57.3	4.7	5.9	51.0	4.1	4.8
		30	57.9	3.9	4.3	52.1	3.5	3.5	46.4	3.1	2.8
		15	86.8	11.7	39.5	78.1	10.6	32.2	69.5	9.4	25.8
	1 4 0	20	82.4	8.4	20.6	74.2	7.5	16.9	66.1	6.7	13.6
WRX-122P	140	25	77.0	6.3	11.9	69.3	5.6	9.8	61.7	5.0	7.9
		30	70.6	4.8	7.2	63.6	4.3	5.9	56.6	3.8	4.8



WRX 4P Heating Performance Data - 1 Row

			Heating	Entering A	\ir - 65°F	Heating	Entering A	Air - 70°F	Heating Entering Air - 75°F			
Size	EWT (°F)	Delta T (°F)	Total Capacity	GPM	Pressure Drop (Ft)	Total Capacity	GPM	Pressure Drop (Ft)	Total Capacity	GPM	Pressure Drop (Ft)	
		30	10.5	0.7	1.7	9.7	0.6	1.5	9.1	0.6	1.3	
WRX-032P	160	40	9.7	0.5	0.9	9.0	0.5	0.7	8.4	0.4	0.6	
WRX-032P	160	50	8.7	0.3	0.4	8.1	0.3	0.3	7.5	0.3	0.3	
		60	7.4	0.2	0.1	6.9	0.2	0.1	6.4	0.2	0.1	
WRX-042P	160	30	15.1	1.0	1.2	14.1	0.9	1.1	13.1	0.9	0.9	
		40	13.8	0.7	0.6	12.8	0.6	0.6	11.9	0.6	0.5	
		50	12.4	0.5	0.4	11.5	0.5	0.3	10.7	0.4	0.3	
		60	11.0	0.4	0.2	10.2	0.3	0.2	9.5	0.3	0.2	
		30	17.4	1.2	1.2	16.1	1.1	1.1	15.0	1.0	1.0	
WRX-062P	160	40	15.5	0.8	0.7	14.4	0.7	0.7	13.4	0.7	0.6	
WRX-002P	160	50	13.6	0.5	0.5	12.6	0.5	0.5	11.7	0.5	0.5	
		60	11.6	0.4	0.4	10.8	0.4	0.4	10.0	0.3	0.4	
		30	28.4	1.9	19.5	26.4	1.8	16.9	24.6	1.7	14.8	
WRX-082P	160	40	25.7	1.3	9.4	23.9	1.2	8.2	22.2	1.1	7.2	
WRX-062P	160	50	22.9	0.9	5.0	21.2	0.9	4.4	19.8	0.8	3.8	
		60	19.9	0.7	2.8	18.5	0.6	2.4	17.2	0.6	2.2	
		30	34.9	2.4	36.9	32.3	2.2	32.1	30.1	2.0	28.3	
WRX-102P	160	40	31.9	1.6	18.7	29.6	1.5	16.3	27.6	1.4	14.4	
WRX-102P	160	50	28.8	1.2	10.6	26.7	1.1	9.3	24.9	1.0	8.2	
		60	25.6	0.9	6.3	23.8	0.8	5.6	22.1	0.8	4.9	
		30	41.7	2.8	58.8	38.7	2.6	51.2	36.1	2.5	45.0	
WRX-122P	160	40	38.3	2.0	29.7	35.6	1.8	26.0	33.1	1.7	22.9	
WDA-122P	160	50	34.7	1.4	16.8	32.2	1.3	14.7	30.0	1.2	13.0	
		60	31.0	1.1	10.0	28.8	1.0	8.8	26.8	0.9	7.8	

WRX 4P Heating Performance Data - 2 row

			Heating	Entering A	lir - 65°F	Heating	Entering A	Air - 70°F	Heating	Entering /	Air - 75°F
Size	EWT (°F)	Delta T (°F)	Total Capacity	GPM	Pressure Drop (Ft)	Total Capacity	GPM	Pressure Drop (Ft)	Total Capacity	GPM	Pressure Drop (Ft)
		20	17.6	1.8	8.7	16.4	1.6	7.6	15.3	1.5	6.7
WRX-032P	150	30	15.4	1.0	3.3	14.3	1.0	2.9	13.3	0.9	2.6
WRX-032P	150	40	12.9	0.6	1.5	12.0	0.6	1.3	11.2	0.6	1.1
		50	10.3	0.4	0.6	9.5	0.4	0.5	8.9	0.4	0.4
		20	24.5	2.4	5.9	22.7	2.3	5.2	21.2	2.1	4.6
	450	30	21.7	1.4	2.3	20.2	1.3	2.0	18.8	1.3	1.8
WRX-042P	150	40	18.7	0.9	1.1	17.4	0.9	1.0	16.2	0.8	0.8
		50	15.5	0.6	0.5	14.4	0.6	0.5	13.4	0.5	0.4
	150 -	20	30.0	3.0	6.3	27.8	2.8	5.4	25.9	2.6	4.7
		30	25.8	1.7	2.2	23.9	1.6	2.0	22.3	1.5	1.8
WRX-062P		40	21.2	1.1	1.0	19.7	1.0	0.9	18.3	0.9	0.9
		50	16.2	0.6	0.6	15.0	0.6	0.6	14.0	0.6	0.5
		20	45.8	4.7	31.4	42.5	4.3	27.3	39.6	4.0	23.9
	450	30	40.1	2.7	11.6	37.2	2.5	10.1	34.7	2.4	8.9
WRX-082P	150	40	33.9	1.7	5.1	31.4	1.6	4.4	29.3	1.5	3.9
		50	27.2	1.1	2.3	25.2	1.0	2.0	23.5	1.0	1.8
		20	50.5	5.1	45.2	46.9	4.8	39.7	43.7	4.4	35.2
WRX-102P	150	30	45.0	3.1	18.7	41.8	2.8	16.5	38.9	2.6	14.7
WRX-102P	150	40	39.0	2.0	9.2	36.2	1.8	8.2	33.7	1.7	7.3
		50	32.4	1.3	4.7	30.1	1.2	4.2	28.0	1.1	3.7
		20	60.5	6.2	76.1	56.1	5.7	66.0	52.3	5.3	57.8
	450	30	54.1	3.7	28.8	50.2	3.4	25.1	46.8	3.2	22.1
WRX-122P	150	40	47.0	2.4	13.2	43.6	2.2	11.5	40.7	2.1	10.2
	F	50	39.3	1.6	6.5	36.5	1.5	5.7	34.0	1.4	5.0



		-												
			Cooli	ng Performa	ance - 80°F	/ 67°F	Cooli	ng Performa	ance - 78°F	7 / 65°F	Cooli	ng Performa	ance - 75°F	7 / 63°F
Size	EWT (°F)	Delta T (°F)	Total Capacity	Sensible Capacity	GPM	Pressure Drop (Ft)	Total Capacity	Sensible Capacity	GPM	Pressure Drop (Ft)	Total Capacity	Sensible Capacity	GPM	Pressure Drop (Ft)
		10	10.5	7.7	2.1	8.7	9.5	7.2	1.9	7.3	8.1	6.4	1.6	5.4
	45	12	9.7	7.3	1.6	5.4	8.8	6.9	1.5	4.5	7.4	6.1	1.2	3.4
WRX-032P	45	14	8.9	7.0	1.3	3.5	8.1	6.6	1.2	3.0	6.9	5.8	1.0	2.2
		16	8.2	6.6	1.0	2.4	7.5	6.2	0.9	2.1	6.3	5.5	0.8	1.5
		10	14.8	10.1	3.0	12.4	13.5	9.5	2.7	10.4	11.4	8.4	2.3	7.8
	45	12	12.5	9.4	2.1	6.6	11.3	8.8	1.9	5.6	9.6	7.8	1.6	4.3
WRX-042P 4	45	14	10.3	8.6	1.5	3.8	9.4	8.0	1.3	3.3	7.9	7.1	1.1	2.5
		16	8.4	7.6	1.1	2.3	7.6	7.1	1.0	2.0	6.5	6.3	0.8	1.6
	45	10	20.5	14.9	4.1	14.8	18.6	14.0	3.7	12.4	15.7	12.4	3.1	9.2
		12	19.2	14.4	3.2	9.4	17.4	13.5	2.9	7.9	14.7	11.9	2.5	5.9
WRX-062P	45	14	17.1	13.5	2.4	5.9	15.5	12.7	2.2	5.0	13.2	11.3	1.9	3.7
		16	14.3	12.5	1.8	3.4	13.0	11.7	1.6	2.9	11.0	10.4	1.4	2.3
		10	24.6	19.7	4.9	19.2	22.3	18.5	4.5	16.2	18.9	16.4	3.8	12.2
WRX-082P	45	12	22.8	18.9	3.8	12.3	20.7	17.7	3.4	10.4	17.5	15.7	2.9	7.9
WRX-062P	45	14	21.1	18.1	3.0	8.3	19.2	17.0	2.7	7.0	16.2	15.0	2.3	5.3
		16	19.6	17.2	2.4	5.8	17.8	16.1	2.2	5.0	15.0	14.3	1.9	3.7
		10	30.5	24.2	6.1	19.0	27.7	22.8	5.5	15.9	23.5	20.2	4.7	11.7
WRX-102P	45	12	26.5	22.4	4.4	10.5	24.1	21.0	4.0	8.8	20.4	18.6	3.4	6.5
WRX-102P	45	14	23.6	20.9	3.4	6.4	21.4	19.7	3.1	5.4	18.2	17.4	2.6	4.0
		16	21.8	19.9	2.7	4.4	19.8	18.7	2.5	3.7	16.8	16.5	2.1	2.7
		10	36.7	29.1	7.3	16.3	33.3	27.3	6.7	13.6	28.2	24.2	5.6	9.9
WRX-122P	45	12	33.5	27.6	5.6	9.7	30.4	25.9	5.1	8.1	25.8	22.9	4.3	5.9
WDA-122P	45	14	30.5	26.0	4.4	6.1	27.7	24.4	4.0	5.1	23.5	21.6	3.4	3.7
		16	27.8	24.4	3.5	4.0	25.2	22.9	3.2	3.3	21.4	20.3	2.7	2.4

WRX 2P/4P Cooling Performance Data - 3 Row

WRX 2P/4P Heating Performance Data - 3 Row

			Heating	Entering A	lir - 65°F	Heating	Entering A	Air - 70°F	Heating	Entering	Air - 75°F
Size	EWT (°F)	Delta T (°F)	Total Capacity	GPM	Pressure Drop (Ft)	Total Capacity	GPM	Pressure Drop (Ft)	Total Capacity	GPM	Pressure Drop (Ft)
		15	15.3	2.0	7.1	13.8	1.8	5.9	12.3	1.6	4.8
	1 4 0	20	14.2	1.4	3.7	12.8	1.3	3.1	11.4	1.1	2.5
WRX-032P	140	25	12.9	1.0	2.1	11.6	0.9	1.8	10.4	0.8	1.5
		30	11.6	0.8	1.3	10.4	0.7	1.1	9.3	0.6	0.9
		15	25.5	3.4	13.8	23.0	3.1	11.4	20.5	2.7	9.3
	140	20	23.0	2.3	6.9	20.7	2.1	5.7	18.4	1.8	4.7
WRX-042P	140	25	20.3	1.6	3.8	18.3	1.5	3.3	16.3	1.3	2.7
		30	17.7	1.2	2.3	15.9	1.1	2.0	14.2	0.9	1.7
	140 -	15	42.3	5.6	23.4	38.0	5.1	19.2	33.9	4.5	15.4
WRX-062P		20	39.1	3.9	11.8	35.2	3.5	9.7	31.3	3.1	7.9
WRX-062P		25	35.5	2.8	6.6	32.0	2.6	5.5	28.5	2.3	4.5
		30	31.5	2.1	3.9	28.4	1.9	3.3	25.3	1.7	2.7
		15	53.7	7.2	32.5	48.4	6.4	26.9	43.1	5.7	21.9
	140	20	49.8	5.0	17.0	44.8	4.5	14.2	39.9	4.0	11.6
WRX-082P	140	25	45.5	3.6	9.9	40.9	3.3	8.3	36.4	2.9	6.8
		30	40.8	2.7	6.0	36.7	2.4	5.1	32.7	2.2	4.2
		15	66.3	8.8	32.9	59.6	8.0	27.0	53.1	7.1	21.7
WRX-102P		20	62.0	6.2	17.0	55.8	5.6	14.0	49.7	5.0	11.3
WRX-102P	140	25	57.2	4.6	9.7	51.5	4.1	8.0	45.8	3.7	6.5
		30	51.7	3.4	5.8	46.5	3.1	4.8	41.4	2.8	3.9
		15	78.4	10.4	27.8	70.5	9.4	22.7	62.8	8.4	18.2
WRX-122P	140	20	73.0	7.3	14.0	65.7	6.6	11.5	58.5	5.9	9.2
WRA-122P	140	25	66.7	5.3	7.7	60.1	4.8	6.3	53.5	4.3	5.1
	F	30	59.5	4.0	4.4	53.6	3.6	3.6	47.7	3.2	2.9



WRX Dual Path Cooling Performance Data

			Cooling P	erformance - 8	0°F / 67°F	Cooling P	erformance - 7	'8°F / 65°F	Cooling P	erformance - 7	′5°F / 63°F
Size	EWT (°F)	Delta T (°F)	Total Capacity	Sensible Capacity	GPM	Total Capacity	Sensible Capacity	GPM	Total Capacity	Sensible Capacity	GPM
		10	10.1	7.7	2.0	9.0	7.4	1.8	7.9	6.8	1.6
	45	12	9.5	7.5	1.6	8.9	7.4	1.5	7.6	6.6	1.3
WR-032P	45	14	9.3	7.4	1.3	8.3	7.1	1.2	5.4	5.4	0.8
		16	8.7	7.1	1.1	7.9	6.8	1.0	4.9	4.9	0.6
		10	15.3	11.0	3.1	13.7	10.6	2.7	12.0	9.7	2.4
	45	12	14.6	10.7	2.4	13.1	10.3	2.2	11.5	9.4	1.9
WR-042P	45	14	13.9	10.5	2.0	12.6	10.1	1.8	11.1	9.3	1.6
		16	13.4	10.2	1.7	12.2	9.9	1.5	10.7	9.0	1.3
		10	21.6	16.0	4.3	19.1	15.3	3.8	16.7	13.9	3.3
	45 -	12	20.3	15.4	3.4	18.1	14.9	3.0	16.2	13.7	2.7
WR-062P	45	14	19.2	15.0	2.7	17.6	14.6	2.5	15.3	13.2	2.2
	-	16	18.6	14.7	2.3	16.7	14.1	2.1	10.3	10.3	1.3
		10	28.0	20.4	5.6	24.9	19.6	5.0	21.8	17.8	4.4
	45	12	26.5	19.8	4.4	23.8	19.0	4.0	20.5	17.2	3.4
WR-082P	45	14	25.3	19.3	3.6	22.5	18.4	3.2	19.6	16.6	2.8
		16	24.2	18.8	3.0	21.5	17.9	2.7	18.7	16.1	2.3
		10	32.1	24.1	6.4	28.7	23.2	5.7	25.0	21.1	5.0
WR-102P	45	12	30.4	23.4	5.1	27.2	22.5	4.5	23.7	20.4	4.0
WH-IUZF	40	14	28.8	22.6	4.1	25.9	21.8	3.7	22.5	19.7	3.2
		16	27.3	21.9	3.4	24.6	21.1	3.1	14.8	14.8	1.8
		10	40.0	29.7	8.0	35.7	28.6	7.1	31.1	25.9	6.2
WR-122P	45	12	37.8	28.8	6.3	33.9	27.7	5.6	29.5	25.1	4.9
WIT-1221	40	14	35.8	27.9	5.1	32.2	26.9	4.6	28.1	24.3	4.0
		16	34.0	27.1	4.3	30.7	26.0	3.8	18.4	18.4	2.3



Table 7: WR PSC Blower Performance Table

11-14	Fan O	ption	CFM at External Static Pressure (in wg.)											
Unit	Option	Speed	0.00	0.05	0.10	0.15	0.20	0.25	0.30	0.35	0.40	0.45	0.50	
WRX-03		HI	350	341	330	316	300	282	261					
	Standard	MED	286	282	274	265	252	237						
(0.75)		LO	201	200	194	183								
WRX-04		HI	448	444	438	430	421	410	398	383	367			
	Standard	MED	321	317	313	309	305	300	296					
(1.0)		LO	248	240	233	228	225							
WRX-06 (1.5)	Standard	HI	643	625	606	585	564	541	518	493	467			
		MED	488	473	458	441	424	407	388					
(1.5)		LO	328	310	292	275	257	240						
WRX-08		HI	810	802	791	776	760	740	717	692	664	633	599	
	Standard	MED	532	528	522	514	504	492	478	462				
(2.0)		LO	387	372	356	342	327	313	300					
WRX-10	Standard	HI					NA; See	Constant Tor	rque ECM					
(2.5)	High Static	HI	NA; See Constant Torque ECM											
WRX-12	Standard	HI	NA; See Constant Torque ECM											
(3.0)	High Static	HI	NA; See Constant Torque ECM											

Unit	Fan C	ption				CF	M at Extern	al Static Pre	essure (in w	/g.)			
Unit	Option	Speed	0.00	0.05	0.10	0.15	0.20	0.25	0.30	0.35	0.40	0.45	0.50
		HI	434	424	412	397	381	363	342	320	296	270	242
		MED HI	393	382	368	351	330	307	280	250	217		
WRX-03 (0.75)	Optional	MED ¹	351	338	321	298	271	239	202				
(0.75)		MED LO ²	299	282	258	227	190						
		LOW ³	250	228	192								
		HI	531	518	503	487	469	449	428	405	381	355	327
		MED HI	493	478	462	443	422	398	372	344	313	280	245
WRX-04	Optional	MED ¹	453	437	417	395	369	340	308	273	235		
(1.0)		MED LO ²	368	343	313	279	241	198					
		LOW ³	271	241	189								
		HI	722	702	680	659	637	614	591	568	544	520	496
		MED HI1	656	635	614	592	570	547	525	501	478	454	429
WRX-06	Optional	MED	586	561	534	506	475	443	410	374	337		
(1.5)		MED LO ²	507	475	443	409	374	338	300				
		LOW ³	418	379	339	299	259						
		HI	807	798	789	779	768	758	746	735	723	710	697
WRX-08		MED HI1	769	753	737	722	707	693	679	666	653	641	630
(2.0)	Optional	MED	697	683	670	657	644	631	619	606	593	581	569
(2.0)	-	MED LO ²	597	582	567	552	537	523	508	494	479		
		LOW ³	494	476	457	439	421	403	386				
		HI	1097	1077	1059	1040	1023	1006	990	974	959	944	931
WRX-10		MED HI1	1025	1007	988	971	953	937	920	904	889	874	860
(2.5)	Standard	MED	925	903	881	860	840	821	802	784	767	751	735
(2.3)		MED LO ²	812	788	765	743	722	702	682	664	646		
		LOW ³	685	660	635	612	589	568	547				
		HI	1310	1296	1283	1269	1255	1241	1228	1214	1201	1188	1175
WRX-12		MED HI1	1209	1194	1179	1164	1149	1135	1121	1107	1094	1081	1068
(3.0)	Standard	MED MED LO ²	1089 949	1074 930	1059 912	1044 894	1029 876	1014 858	999 841	983 823	967 805	951 788	935 770
		LOW ³	789	769	749	728	708	687	666	645	624	/ 00	//0

Table 8: WR Constant Torque ECM Blower Performance Table



Size	Supply	/ Blower M	otor	I	Electric Hea	t	Single P	oint Power		Dual Poi	nt Power	
(Tons)	Voltage	FLA	НР	Voltage	kW	Amps	MCA	MOPD	Unit MCA	Unit MOPD	E-Heat MCA	E-Heat MOPD
	İ İ			1	0.0	0.0	0.9	15	NA	NA	NA	NA
					1.0	8.7	11.7	15	0.9	15	10.9	15
	115/1/60	0.7	1/20	115/1/60	1.5	13.0	17.2	20	0.9	15	16.3	20
	110/1/00	0.7	1/20	113/1/00	2.0	17.4	22.6	25	0.9	15	21.7	25
					2.5	21.7	28.1	30	0.9	15	27.2	30
	┣────┼				3.0	26.1	NA	NA	0.9	15	32.6	35
					0.0	0.0	0.8	15	NA	NA 15	NA	NA 15
					<u>1.0</u> 1.5	4.8	6.8 9.8	15 15	0.8	<u>15</u> 15	6.0 9.0	15 15
				208/1/60	2.0	9.6	12.8	15	0.8	15	12.0	15
					2.5	12.0	12.8	20	0.8	15	15.0	20
					3.0	14.4	18.8	20	0.8	15	18.0	20
WR-03	208-230/1/60	0.6	1/15		0.0	0.0	0.8	15	NA	NA	NA NA	NA
					1.0	4.3	6.2	15	0.8	15	5.4	15
					1.5	6.5	8.9	15	0.8	15	8.2	15
				230/1/60	2.0	8.7	11.6	15	0.8	15	10.9	15
					2.5	10.9	14.3	15	0.8	15	13.6	15
					3.0	13.0	17.1	20	0.8	15	16.3	20
					0.0	0.0	0.6	15	NA	NA	NA	NA
					1.0	3.8	5.3	15	0.6	15	4.7	15
	265/1/60	0.5	1/20	265/1/60	1.5	5.7	7.7	15	0.6	15	7.1	15
	265/1/60	0.5	1/20	265/1/60	2.0	7.5	10.1	15	0.6	15	9.4	15
					2.5	9.4	12.4	15	0.6	15	11.8	15
					3.0	11.3	14.8	15	0.6	15	14.2	15
					0.0	0.0	1.3	15	NA	NA	NA	NA
			1.0 1/15		1.0	8.7	12.1	15	1.3	15	10.9	15
					1.5	13.0	17.6	20	1.3	15	16.3	20
	115/1/60	1.0		115/1/60	2.0	17.4	23.0	25	1.3	15	21.7	25
	110/1/00			110/1/00	2.5	21.7	28.4	30	1.3	15	27.2	30
					3.0	26.1	NA	NA	1.3	15	32.6	35
					3.5	30.4	NA	NA	1.3	15	38.0	40
					4.0	34.8	NA	NA	1.3	15	43.5	45
					0.0	0.0	0.8	15	NA	NA	NA	NA
					1.0	4.8	6.8	15	0.8	15	6.0	15
					1.5	7.2	9.8	15	0.8	15	9.0	15
				208/1/60	2.0	9.6	12.8 15.8	15 20	0.8	<u>15</u> 15	12.0	15 20
					3.0	12.0	15.8	20	0.8	15	15.0 18.0	20
					3.5	16.8	21.8	20	0.8	15	21.0	20
					4.0	10.8	21.8	25	0.8	15	21.0	25
WR-04	208-230/1/60	0.6	1/15		0.0	0.0	0.8	15	NA	NA	NA	NA
				1	1.0	4.3	6.2	15	0.8	15	5.4	15
					1.5	6.5	8.9	15	0.8	15	8.2	15
					2.0	8.7	11.6	15	0.8	15	10.9	15
				230/1/60	2.5	10.9	14.3	15	0.8	15	13.6	15
					3.0	13.0	17.1	20	0.8	15	16.3	20
				1	3.5	15.2	19.8	20	0.8	15	19.0	20
					4.0	17.4	22.5	25	0.8	15	21.7	25
			1		0.0	0.0	0.6	15	NA	NA	NA	NA
					1.0	3.8	5.3	15	0.6	15	4.7	15
					1.5	5.7	7.7	15	0.6	15	7.1	15
	065/1/60	0.5	1/10	065/1/60	2.0	7.5	10.1	15	0.6	15	9.4	15
	265/1/60	0.5	1/12	265/1/60	2.5	9.4	12.4	15	0.6	15	11.8	15
				[3.0	11.3	14.8	15	0.6	15	14.2	15
				I [3.5	13.2	17.1	20	0.6	15	16.5	20
				1	4.0	15.1	19.5	20	0.6	15	18.9	20



WRX Electrical Data – Standard PSC Motor

Size	Suppl	y Blower M	otor		Electric Hea	t	Single Po	oint Power		Dual Poi	nt Power	
(Tons)	Voltage	FLA	НР	Voltage	kW	Amps	МСА	MOPD	Unit MCA	Unit MOPD	E-Heat MCA	E-Heat MOPD
					0.0	0.0	2.0	15	NA	NA	NA	NA
					1.0	8.7	12.9	15	2.0	15	10.9	15
					1.5	13.0	18.3	20	2.0	15	16.3	20
					2.0	17.4	23.7	25	2.0	15	21.7	25
					2.5	21.7	29.2	30	2.0	15	27.2	30
	115/1/60	1.6	1/12	115/1/60	3.0	26.1	NA	NA	2.0	15	32.6	35
			.,	, .,	3.5	30.4	NA	NA	2.0	15	38.0	40
					4.0	34.8	NA	NA	2.0	15	43.5	45
					4.5	39.1	NA	NA	2.0	15	48.9	50
					5.0	43.5	NA	NA	2.0	15 15	54.3	55
					5.5 6.0	47.8 NA	NA NA	NA NA	2.0 NA	NA	59.8	60 NA
					0.0	0.0	1.1	15	NA	NA NA	NA NA	NA NA
				1	1.0	4.8	7.1	15	1.1	15	6.0	15
				1	1.5	7.2	10.1	15	1.1	15	9.0	15
					2.0	9.6	13.1	15	1.1	15	12.0	15
					2.5	12.0	16.2	20	1.1	15	15.0	20
					3.0	14.4	19.2	20	1.1	15	18.0	20
				208/1/60	3.5	16.8	22.2	25	1.1	15	21.0	25
					4.0	19.2	25.2	30	1.1	15	24.0	25
	208-230/1/60 0.9			4.5	21.6	28.2	30	1.1	15	27.0	30	
			1/12		5.0	24.0	NA	NA	1.1	15	30.0	35
		0.9			5.5	26.4	NA	NA	1.1	15	33.1	35
WR-06					6.0	28.8	NA	NA	1.1	15	36.1	40
Wh-00	200-230/1/00				0.0	0.0	1.1	15	NA	NA	NA	NA
					1.0	4.3	6.6	15	1.1	15	5.4	15
					1.5	6.5	9.3	15	1.1	15	8.2	15
					2.0	8.7	12.0	15	1.1	15	10.9	15
					2.5	10.9	14.7	15	1.1	15	13.6	15
				230/1/60	3.0	13.0	17.4	20	1.1	15	16.3	20
					3.5	15.2	20.2	25	1.1	15	19.0	20
					4.0 4.5	17.4 19.6	22.9 25.6	25 30	1.1	15 15	21.7 24.5	25 25
					5.0	21.7	23.0	30	1.1	15	24.5	30
					5.5	23.9	20.3 NA	NA	1.1	15	29.9	30
					6.0	26.1	NA	NA	1.1	15	32.6	35
			1	1 1	0.0	0.0	1.0	15	NA	NA	NA	NA
					1.0	3.8	5.7	15	1.0	15	4.7	15
					1.5	5.7	8.1	15	1.0	15	7.1	15
					2.0	7.5	10.4	15	1.0	15	9.4	15
					2.5	9.4	12.8	15	1.0	15	11.8	15
	065/1/60	0.0	0.15	065/1/60	3.0	11.3	15.2	20	1.0	15	14.2	15
	265/1/60	0.8	0.15	265/1/60	3.5	13.2	17.5	20	1.0	15	16.5	20
					4.0	15.1	19.9	20	1.0	15	18.9	20
					4.5	17.0	22.2	25	1.0	15	21.2	25
				1	5.0	18.9	24.6	25	1.0	15	23.6	25
				[5.5	20.8	26.9	30	1.0	15	25.9	30
				1	6.0	22.6	29.3	30	1.0	15	28.3	30

Electrical Data – Standard PSC Motor



WRX Electrical Data – Standard PSC Motor

Dual Point Power	Dual Poi		oint Power	Single Po		Electric Heat		otor	ly Blower Mo	Supp	Size
Unit E-Heat E-He MOPD MCA MOP	1	Unit MCA	MOPD	MCA	Amps	kW	Voltage	HP	FLA	Voltage	Size (Tons)
NA NA NA	NA	NA	15	2.9	0.0	0.0					
15 10.9 15		2.9	15	13.7	8.7	1.0					
15 16.3 20		2.9	20	19.2	13.0	1.5 2.0					
15 21.7 25 15 27.2 30		2.9 2.9	25 NA	24.6 NA	<u>17.4</u> 21.7	2.0	-				
15 32.6 35		2.9	NA	NA	26.1	3.0					
15 38.0 40		2.9	NA	NA	30.4	3.5					
15 43.5 45	15	2.9	NA	NA	34.8	4.0	115/1/60	1/6	2.3	115/1/60	
15 48.9 50		2.9	NA	NA	39.1	4.5	113/1/00	1/0	2.5	113/1/00	
15 54.3 55		2.9	NA	NA	43.5	5.0					
15 59.8 60 NA NA NA		2.9 NA	NA NA	NA NA	47.8 NA	5.5 6.0					
NA NA NA		NA	NA	NA	NA	6.5	-				
NA NA NA		NA	NA	NA	NA	7.0					
NA NA NA		NA	NA	NA	NA	7.5					
NA NA NA		NA	NA	NA	NA	8.0					
NA NA NA		NA	15	1.9	0.0	0.0					
15 6.0 15		1.9	15	7.9	4.8	1.0					
15 9.0 15		1.9	15	10.9	7.2	1.5					
15 12.0 15 15 15.0 20		1.9 1.9	15 20	13.9 16.9	9.6 12.0	2.0					
15 15.0 20 15 18.0 20		1.9	20	10.9	12.0	3.0					
15 21.0 25		1.9	25	22.9	16.8	3.5					
15 24.0 25		1.9	30	25.9	19.2	4.0	000/4/00				
15 27.0 30	15	1.9	30	28.9	21.6	4.5	208/1/60				
15 30.0 35		1.9	NA	NA	24.0	5.0					
15 33.1 35		1.9	NA	NA	26.4	5.5					
15 36.1 40		1.9	NA	NA	28.8	6.0					
15 39.1 40 15 42.1 45		1.9 1.9	NA NA	NA NA	<u>31.3</u> 33.7	6.5					
15 42.1 45 15 45.1 50		1.9	NA	NA	36.1	7.0		1/5	1.5		
15 48.1 50		1.9	NA	NA	38.5	8.0				000.000/1/60	
NA NA NA		NA	15	1.9	0.0	0.0				208-230/1/60	WR-08
15 5.4 15		1.9	15	7.3	4.3	1.0					
15 8.2 15		1.9	15	10.0	6.5	1.5					
15 10.9 15		1.9	15	12.7	8.7	2.0					
15 13.6 15 15 16.3 20		1.9	20	15.5	10.9	2.5					
15 16.3 20 15 19.0 20		1.9 1.9	20 25	18.2 20.9	13.0 15.2	<u>3.0</u> 3.5					
15 21.7 25		1.9	25	20.9	17.4	4.0					
15 24.5 25		1.9	30	26.3	19.6	4.5	230/1/60				
15 27.2 30		1.9	30	29.1	21.7	5.0					
15 29.9 30		1.9	NA	NA	23.9	5.5	[
15 32.6 35		1.9	NA	NA	26.1	6.0					
15 35.3 40		1.9	NA	NA	28.3	6.5					
15 38.0 40 15 40.8 45		1.9 1.9	NA NA	NA NA	30.4 32.6	7.0					
15 40.8 45		1.9	NA	NA	32.0	8.0					
NA NA NA		NA	15	1.1	0.0	0.0		1			
15 4.7 15		1.1	15	5.8	3.8	1.0	[
15 7.1 15		1.1	15	8.2	5.7	1.5	[
15 9.4 15		1.1	15	10.6	7.5	2.0					
15 11.8 15		1.1	15	12.9	9.4	2.5					
<u>15</u> <u>14.2</u> <u>15</u> <u>15</u> <u>165</u> <u>20</u>		1.1	20	15.3	11.3	3.0					
15 16.5 20 15 18.9 20		1.1 1.1	20 20	17.6 20.0	<u>13.2</u> 15.1	<u>3.5</u> 4.0					
15 18.9 20 15 21.2 25		1.1	20	20.0	17.0	4.0	265/1/60	0.14	0.9	265/1/60	
15 23.6 25		1.1	25	24.7	17.0	5.0					
15 25.9 30		1.1	30	27.1	20.8	5.5					
15 28.3 30		1.1	30	29.4	22.6	6.0					
15 30.7 35	15	1.1	NA	NA	24.5	6.5	[
15 33.0 35		1.1	NA	NA	26.4	7.0	[
15 35.4 40 15 37.7 40		1.1	NA	NA	28.3	7.5					
15 37.7		1.1	NA	NA	30.2	8.0					



0:	Suppl	y Blower M	otor		Electric Hea	ıt	Single Po	oint Power		Dual Po	int Power	
Size (Tons)	Voltage	FLA	HP	Voltage	kW	Amps	MCA	MOPD	Unit MC/		E-Heat MCA	E-Heat MOPD
					0.0	0.0	4.6	15	NA	NA	NA	NA
					1.0	8.7	15.5	20	4.6	15	10.9	15
	115/1/60	3.7	1/4	115/1/60	1.5	13.0	20.9	25	4.6	15	16.3	20
		0	., .	1.10/1/00	2.0	17.4	26.4	30	4.6	15	21.7	25
					2.5	21.7	NA	NA	4.6	15	27.2	30
					3.0	26.1 0.0	NA 2.8	NA 15	4.6 NA	15 NA	32.6 NA	35 NA
					1.0	4.8	8.8	15	2.8	15	6.0	15
					1.5	7.2	11.8	15	2.8	15	9.0	15
				208/1/60	2.0	9.6	14.8	15	2.8	15	12.0	15
				1	2.5	12.0	17.8	20	2.8	15	15.0	20
	000 000/4/00	0.0	1/4		3.0	14.4	20.8	25	2.8	15	18.0	20
WR-03	208-230/1/60	2.2	1/4		0.0	0.0	2.8	15	NA	NA	NA	NA
					1.0	4.3	8.2	15	2.8	15	5.4	15
				230/1/60	1.5	6.5	10.9	15	2.8	15	8.2	15
				200/1/00	2.0	8.7	13.6	15	2.8	15	10.9	15
					2.5	10.9	16.3	20	2.8	15	13.6	15
					3.0	13.0	19.1	20	2.8	15	16.3	20
					0.0	0.0	2.8	15	NA	NA	NA	NA 15
					1.5	3.8 5.7	7.5 9.8	15 15	2.8	15	4.7	15 15
	265/1/60	2.2	1/4	265/1/60	2.0	7.5	9.0	15	2.8	15	9.4	15
					2.5	9.4	14.5	15	2.8	15	11.8	15
					3.0	11.3	14.3	20	2.8	15	14.2	15
	1				0.0	0.0	4.6	15	NA	NA	NA	NA
					1.0	8.7	15.5	20	4.6	15	10.9	15
					1.5	13.0	20.9	25	4.6	15	16.3	20
	115/1/60	3.7	1/4	115/1/00	2.0	17.4	26.4	30	4.6	15	21.7	25
	115/1/60	3.7	1/4	115/1/60	2.5	21.7	NA	NA	4.6	15	27.2	30
					3.0	26.1	NA	NA	4.6	15	32.6	35
					3.5	30.4	NA	NA	4.6	15	38.0	40
					4.0	34.8	NA	NA	4.6	15	43.5	45
					0.0	0.0	2.8	15	NA	NA	NA	NA
					1.0	4.8	8.8	15	2.8	15	6.0	15
					1.5	7.2	11.8	15	2.8	15	9.0	15
				208/1/60	2.0	9.6 12.0	14.8	15 20	2.8	15	12.0 15.0	15 20
					3.0	12.0	17.8 20.8	20	2.8	15	18.0	20
					3.5	16.8	20.8	25	2.8	15	21.0	25
					4.0	19.2	26.8	30	2.8	15	24.0	25
WR-04	208-230/1/60	2.2	1/4		0.0	0.0	2.8	15	NA	NA	NA	NA
					1.0	4.3	8.2	15	2.8	15	5.4	15
				1	1.5	6.5	10.9	15	2.8	15	8.2	15
				000/1/60	2.0	8.7	13.6	15	2.8	15	10.9	15
				230/1/60	2.5	10.9	16.3	20	2.8	15	13.6	15
					3.0	13.0	19.1	20	2.8	15	16.3	20
					3.5	15.2	21.8	25	2.8	15	19.0	20
					4.0	17.4	24.5	25	2.8	15	21.7	25
					0.0	0.0	2.8	15	NA	NA	NA	NA
					1.0	3.8	7.5	15	2.8	15	4.7	15
					1.5	5.7	9.8	15	2.8	15	7.1	15
	265/1/60	2.2	1/4	265/1/60	2.0	7.5	12.2	15	2.8	15	9.4	15
					2.5	9.4	14.5	15	2.8	15	11.8	15
					<u>3.0</u> 3.5	11.3 13.2	16.9 19.3	20 20	2.8 2.8	15	14.2 16.5	15 20
					4.0	13.2	21.6	20	2.8	15	16.5	20
			1		4.0	1 10.1	21.0	20	2.8	10	10.9	

Size	Suppl	y Blower M	otor	1	Electric Heat	t	Single Po	oint Power			Dual Poi	nt Power	
(Tons)	Voltage	FLA	HP	Voltage	kW	Amps	МСА	MOPD		Unit MCA	Unit MOPD	E-Heat MCA	E-Heat MOPD
					0.0	0.0	4.6	15		NA	NA	NA	NA
					1.0	8.7	15.5	20		4.6	15	10.9	15
					1.5	13.0	20.9	25		4.6	15	16.3	20
				[2.0	17.4	26.4	30		4.6	15	21.7	25
					2.5		NA			4.6	15	27.2	30
	115/1/60	3.7	1/4	115/1/60							15	32.6	35
	110/1/00	0.7	1/4	110,1700							15	38.0	40
											15	43.5	45
											15	48.9	50
											15	54.3	55
											15	59.8	60
											NA	NA	NA
											NA	NA	NA
											15	6.0	15
											15	9.0	15
											15	12.0	15
											15	15.0	20 20
				208/1/60							15 15	18.0 21.0	20
	208-230/1/60 2.2										15		25
					$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		15	24.0 27.0	30				
							15	30.0	30				
									15	30.0	35		
	208-230/1/60	2.2	1/4								15	36.1	40
WR-06											NA	NA	A NA
											15	5.4	15
											15	8.2	15
											15	10.9	15
											15	13.6	15
											15	16.3	20
				230/1/60							15	19.0	20
											15	21.7	25
											15	24.5	25
											15	27.2	30
											15	29.9	30
											15	32.6	35
											NA	NA	NA
											15	4.7	15
											15	7.1	15
			2.0	7.5	12.2			2.8	15	9.4	15		
					2.5	9.4	14.5	15		2.8	15	11.8	15
	065/1/00	0.0	1/4	065/1/00	3.0	11.3	16.9			2.8	15	14.2	15
	265/1/60	2.2	1/4	265/1/60	3.5		19.3			2.8	15	16.5	20
					4.0	15.1	21.6	25		2.8	15	18.9	20
				[17.0					15	21.2	25
				[5.0			30		2.8	15	23.6	25
					5.5	20.8	28.7	30		2.8	15	25.9	30
					6.0	22.6	NA	NA		2.8	15	28.3	30



Size	Supply Blower Motor			Electric Heat			Single Point Power		Dual Point Power			
(Tons)	Voltage	FLA	HP	Voltage	kW	Amps	МСА	MOPD	Unit MCA	Unit MOPD	E-Heat MCA	E-Heat MOPD
					0.0	0.0	8.0	15	NA	NA	NA	NA
					1.0	8.7	18.9	20	8.0	15	10.9	15
ſ					1.5	13.0	24.3	25	8.0	15	16.3	20
I					2.0	17.4 21.7	29.7	30 NA	8.0 8.0	15 15	21.7	25
I					2.5 3.0	26.1	NA NA	NA	8.0	15	27.2 32.6	30 35
I					3.5	30.4	NA	NA	8.0	15	38.0	40
	115/1/60	6.4	1/0	115/1/60	4.0	34.8	NA	NA	8.0	15	43.5	45
	115/1/60	6.4	1/2	115/1/60	4.5	39.1	NA	NA	8.0	15	48.9	50
ſ					5.0	43.5	NA	NA	8.0	15	54.3	55
ſ					5.5	47.8	NA	NA	8.0	15	59.8	60
I					6.0 6.5	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
					7.0	NA	NA	NA	NA	NA	NA	NA
I					7.5	NA	NA	NA	NA	NA	NA	NA
ľ					8.0	NA	NA	NA	NA	NA	NA	NA
1					0.0	0.0	5.8	15	NA	NA	NA	NA
I					1.0	4.8	11.8	15	5.8	15	6.0	15
ſ					1.5	7.2	14.8	15	5.8	15	9.0	15
I					2.0 2.5	9.6 12.0	17.8 20.8	20 25	5.8 5.8	15 15	12.0 15.0	15 20
I					3.0	14.4	20.8	25	5.8	15	18.0	20
					3.5	16.8	26.8	30	5.8	15	21.0	25
				000/4/00	4.0	19.2	29.8	30	5.8	15	24.0	25
				208/1/60	4.5	21.6	NA	NA	5.8	15	27.0	30
ſ					5.0	24.0	NA	NA	5.8	15	30.0	35
ſ					5.5	26.4	NA	NA	5.8	15	33.1	35
I					6.0	28.8	NA	NA	5.8	15	36.1	40
ſ					6.5 7.0	31.3 33.7	NA NA	NA NA	5.8 5.8	15 15	39.1 42.1	40 45
ľ					7.5	36.1	NA	NA	5.8	15	45.1	50
					8.0	38.5	NA	NA	5.8	15	48.1	50
VR-08	208-230/1/60	4.6	1/2		0.0	0.0	5.8	15	NA	NA	NA	NA
I					1.0	4.3	11.2	15	5.8	15	5.4	15
I					1.5	6.5	13.9	15	5.8	15	8.2	15
I					2.0	8.7	16.6	20	5.8	15	10.9	15
ſ					2.5	10.9	19.3 22.1	20	5.8	15 15	13.6	15 20
ſ					3.0 3.5	13.0 15.2	24.8	25 25	5.8 5.8	15	16.3 19.0	20
					4.0	17.4	27.5	30	5.8	15	21.7	25
				230/1/60	4.5	19.6	NA	NA	5.8	15	24.5	25
I					5.0	21.7	NA	NA	5.8	15	27.2	30
ľ					5.5	23.9	NA	NA	5.8	15	29.9	30
I					6.0	26.1	NA	NA	5.8	15	32.6	35
I					6.5 7.0	28.3 30.4	NA NA	NA NA	5.8 5.8	15 15	35.3 38.0	40
ľ					7.0	30.4	NA NA	NA	5.8	15	40.8	40
					8.0	34.8	NA	NA	5.8	15	43.5	45
l			1		0.0	0.0	4.0	15	NA	NA	NA	NA
I			1/2		1.0	3.8	8.7	15	4.0	15	4.7	15
I					1.5	5.7	11.1	15	4.0	15	7.1	15
ľ				1	2.0	7.5	13.4	15	4.0	15	9.4	15
I					2.5	9.4	15.8	20	4.0	15	11.8	15
ľ					3.0 3.5	11.3 13.2	18.2 20.5	20 25	4.0	15	14.2 16.5	15 20
ľ		_			4.0	15.1	20.5	25	4.0	15	18.9	20
ľ	265/1/60	3.2		265/1/60	4.5	17.0	25.2	30	4.0	15	21.2	25
I					5.0	18.9	27.6	30	4.0	15	23.6	25
I					5.5	20.8	29.9	30	4.0	15	25.9	30
1					6.0	22.6	NA	NA	4.0	15	28.3	30
1					6.5	24.5	NA	NA	4.0	15	30.7	35
			1	1	7.0	26.4	NA	NA	4.0	15	33.0	35
					7.5	28.3	NA	NA	4.0	15	35.4	40



Size	Suppl	y Blower M	otor	Electric Heat			Single Point Power			Dual Poi	nt Power	
Size (Tons)	Voltage	FLA	HP	Voltage	kW	Amps	МСА	MOPD	Unit	Unit MOPD	E-Heat MCA	E-Heat MOPD
					0.0	0.0	8.0	15	MCA NA	NA	NA	NA
					1.0	8.7	18.9	20	8.0	15	10.9	15
					1.5 2.0	13.0	24.3	25	8.0	15	16.3	20
					2.0	17.4	29.7	30	8.0	15	21.7	25
					2.5	21.7	NA	NA	8.0	15	27.2	30
					<u>3.0</u> 3.5	26.1 30.4	NA NA	NA NA	<u>8.0</u> 8.0	15 15	32.6 38.0	35 40
					4.0	34.8	NA	NA	8.0	15	43.5	40
					4.5	39.1	NA	NA	8.0	15	48.9	50
	115/1/60	6.4	1/2	115/1/60	5.0	43.5	NA	NA	8.0	15	54.3	55
		0	.,_		<u>5.5</u> 6.0	47.8	NA	NA	8.0 NA	15	59.8	60
					6.0	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
					7.0	NA	NA	NA	NA	NA	NA	NA
					7.5	NA	NA	NA	NA	NA	NA	NA
					8.0	NA	NA	NA	NA	NA	NA	NA
					8.5	NA	NA	NA	NA	NA	NA	NA
					<u>9.0</u> 9.5	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
					10.0	NA	NA	NA	NA	NA	NA	NA
					0.0	0.0	5.8	15	NA	NA	NA	NA
					1.0	4.8	11.8	15	5.8	15	6.0	15
					1.5 2.0	7.2	14.8 17.8	15	5.8	15	9.0 12.0	15
				1	2.0	9.6	20.8	20 25	<u>5.8</u> 5.8	15 15	12.0	15 20
					3.0	14.4	23.8	25	5.8	15	18.0	20
					3.5	16.8	26.8	30	5.8	15	21.0	25
					4.0	19.2	29.8	30	5.8	15	24.0	25
					4.5	21.6	NA	NA	5.8	15	27.0	30
				208/1/60	5.0	24.0 26.4	NA NA	NA NA	<u>5.8</u> 5.8	15 15	<u>30.0</u> 33.1	<u>35</u> 35
					<u>5.5</u> 6.0	28.8	NA	NA	5.8	15	36.1	40
					6.5	31.3	NA	NA	5.8	15	39.1	40
					7.0	33.7	NA	NA	5.8	15	42.1	45
					7.5	36.1	NA	NA	5.8	15	45.1	50
					8.0	<u>38.5</u> 40.9	NA NA	NA NA	5.8	15	48.1	50
					<u>8.5</u> 9.0	40.9	NA	NA	<u>5.8</u> 5.8	15 15	51.1 54.1	<u>55</u> 55
					9.5	45.7	NA	NA	5.8	15	57.1	60
WR-10	208-230/1/60	4.6	1/2		10.0	NA	NA	NA	NA	NA	NA	NA
WH-10	200 200/ 1/00	4.0	1/2		0.0	0.0	5.8	15	<u>NA</u>	NA	NA	NA
					<u>1.0</u> 1.5	4.3 6.5	<u>11.2</u> 13.9	15 15	<u>5.8</u> 5.8	15 15	<u>5.4</u> 8.2	<u>15</u> 15
					2.0	8.7	16.6	20	5.8	15	10.9	15
					2.5	10.9	19.3	20	5.8	15	13.6	15
					3.0	13.0	22.1	25	5.8	15	16.3	20
					3.5	15.2	24.8	25	5.8	15	19.0	20
					4.0	17.4	27.5 NA	30 NA	<u> </u>	15 15	21.7 24.5	25 25
					5.0	21.7	NA	NA	5.8	15	24.3	30
				230/1/60	5.5	23.9	NA	NA	5.8	15	29.9	30
					5.5 6.0	23.9 26.1	NA	NA	5.8	15	32.6	35
					6.5	28.3	NA	NA	5.8	15	35.3	40
					7.0	30.4 32.6	NA NA	NA NA	<u>5.8</u> 5.8	15 15	<u>38.0</u> 40.8	40 45
					8.0	34.8	NA	NA	5.8	15	43.5	45
					8.5	37.0	NA	NA	5.8	15	46.2	50
					9.0	39.1	NA	NA	5.8	15	48.9	50
					9.5	41.3	NA NA	NA NA	<u> </u>	15	<u>51.6</u> 54.3	55
			-	1	0.0	0.0	4.0	15	NA	NA IS		55 NA
					1.0	3.8	8.7	15	4.0	15	4.7	15
					1.5	5.7	11.1	15	4.0	15	7.1	15
					2.0	7.5	13.4	15	4.0	15	9.4	15
					2.5	9.4	<u>15.8</u> 18.2	20 20	4.0	15 15	<u>11.8</u> 14.2	<u>15</u> 15
					3.0	13.2	20.5	20	4.0	15	14.2	20
					4.0	15.1	22.9	25	4.0	15	18.9	20
					4.5	17.0	25.2	30	4.0	15	21.2	25
	265/1/60	3.2	1/2	265/1/60	5.0	18.9	27.6	30	4.0	15	23.6	25
		3.2	1/2		5.5	20.8	29.9 NA	30	4.0	15 15	25.9	30
					<u>6.0</u> 6.5	22.6 24.5	NA NA	NA NA	4.0	15	28.3 30.7	<u>30</u> 35
					7.0	26.4	NA	NA	4.0	15	33.0	35
					7.5	28.3	NA	NA	4.0	15	35.4	40
					8.0	30.2	NA	NA	4.0	15	37.7	40
					8.5	32.1	NA	NA	4.0	15	40.1	45
					9.0	34.0	NA	NA	4.0	15	42.5	45
					9.5	35.8	NA	NA	4.0	15	44.8	45



Size	Supply Blower Motor			Electric Heat			Single Point Power			Dual Po	int Power	
(Tons)	Voltage	FLA	HP	Voltage	kW	Amps	МСА	MOPD	Unit	Unit	E-Heat	E-Heat
· /	J								MCA	MOPD	MCA	MOPD
					0.0	0.0	8.0 18.9	15 20	NA 8.0	NA 15	NA 10.9	NA 15
					1.5	13.0	24.3	25 30	8.0	15	16.3	20
					2.0 2.5	17.4 21.7	29.7 NA	30 NA	8.0 8.0	15 15	21.7 27.2	25 30
					3.0	26.1	NA	NA	8.0	15	32.6	35
					3.5	30.4	NA	NA	8.0	15	38.0	40
					4.0	<u>34.8</u> 39.1	NA NA	NA NA	<u>8.0</u> 8.0	15	43.5 48.9	<u>45</u> 50
	115/1/60	6.4	1/0	115/1/60	5.0	43.5	NA	NA	8.0	15	54.3	55
	115/1/60	6.4	1/2	115/1/60	5.5	47.8	NA	NA	8.0	15	59.8	60
					<u>6.0</u> 6.5	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
					7.0	NA	NA	NA	NA	NA	NA	NA
					7.5	NA	NA	NA	NA	NA	NA	NA
					<u>8.0</u> 8.5	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
					9.0	NA	NA	NA	NA	NA	NA	NA
					9.5	NA	NA	NA	NA	NA	NA	NA
					<u>10.0</u> 0.0	0.0	NA 5.8	NA 15	NA NA	NA NA	NA NA	NA NA
					1.0	4.8	11.8	15	5.8	15	6.0	15
					1.5	7.2	14.8	15	5.8	15	9.0	15
					2.0 2.5	9.6 12.0	17.8 20.8	20 25	5.8 5.8	15 15	12.0 15.0	15 20
					3.0	14.4	23.8	25	5.8	15	18.0	20
					3.5	16.8	26.8	30	5.8	15	21.0	25
					4.0	<u>19.2</u> 21.6	29.8 NA	30 NA	<u>5.8</u> 5.8	15 15	24.0 27.0	25 30
				000/1/60	5.0	24.0	NA	NA	5.8	15	30.0	35
				208/1/60	5.5	26.4	NA	NA	5.8	15	33.1	35
					6.0 6.5	28.8 31.3	NA NA	NA NA	5.8 5.8	15 15	36.1 39.1	40 40
					7.0	33.7	NA	NA	5.8	15	42.1	45
					7.5	36.1	NA	NA	5.8	15	45.1	50
					<u>8.0</u> 8.5	<u>38.5</u> 40.9	NA NA	NA NA	<u>5.8</u> 5.8	15 15	<u>48.1</u> 51.1	50 55
					9.0	43.3	NA	NA	5.8	15	54.1	55
					9.5	45.7	NA	NA	5.8	15	57.1	60
WR-12	208-230/1/60	4.6	1/2		<u>10.0</u> 0.0	0.0	NA 5.8	NA 15	NA NA	NA NA	NA NA	NA NA
					1.0	4.3	11.2	15	5.8	15	5.4	15
					1.5	6.5	13.9	15	5.8	15	8.2	15
					2.0 2.5	8.7	16.6 19.3	20 20	<u>5.8</u> 5.8	15 15	10.9 13.6	15 15
					3.0	13.0	22.1	25	5.8	15	16.3	20
					3.5	15.2	24.8	25	5.8	15	19.0	20
					4.0	17.4 19.6	27.5 NA	30 NA	<u>5.8</u> 5.8	15 15	21.7 24.5	25 25
				220/1/60	5.0	21.7	NA	NA	5.8	15	27.2	30
				230/1/60	5.5	23.9	NA	NA	5.8	15	29.9	30
					6.0 6.5	26.1 28.3	NA NA	NA NA	<u>5.8</u> 5.8	15 15	32.6 35.3	35 40
					7.0	30.4	NA	NA	5.8	15	38.0	40
					7.5 8.0	32.6 34.8	NA NA	NA NA	5.8 5.8	15 15	40.8 43.5	45 45
					8.0	34.8	NA NA	NA NA	5.8	15	43.5	45
				1	9.0	39.1	NA	NA	5.8	15	48.9	50
					9.5	41.3	NA	NA	5.8	15	51.6	55
				1	<u> </u>	43.5	NA 4.0	NA 15	<u>5.8</u> NA	15 NA	54.3 NA	55 NA
				1	1.0	3.8	8.7	15	4.0	15	4.7	15
					1.5	5.7	11.1	15	4.0	15	7.1	15
					2.0 2.5	7.5	13.4 15.8	15 20	4.0	<u>15</u> 15	9.4 11.8	<u>15</u> 15
				1	3.0	11.3	18.2	20	4.0	15	14.2	15
					3.5	13.2	20.5	25	4.0	15	16.5	20
					4.0	15.1	22.9 25.2	25 30	4.0	<u>15</u> 15	18.9 21.2	20 25
	265/1/60	30	1/0	265/1/60	5.0	18.9	27.6	30	4.0	15	23.6	25
	265/1/60	3.2	1/2	200/1/00	5.5	20.8	29.9	30	4.0	15	25.9	30
					<u>6.0</u> 6.5	22.6 24.5	NA NA	NA NA	4.0	15 15	28.3 30.7	<u>30</u> 35
					7.0	26.4	NA	NA	4.0	15	33.0	35
					7.5	28.3 30.2	NA	NA	4.0	15	35.4	40
					8.0 8.5	30.2	NA NA	NA NA	4.0	15 15	<u>37.7</u> 40.1	40 45
					9.0	34.0	NA	NA	4.0	15	40.1	45
					9.5	35.8	NA	NA	4.0	15	44.8	45
			1	1	10.0	37.7	NA	NA	4.0	15	47.2	50

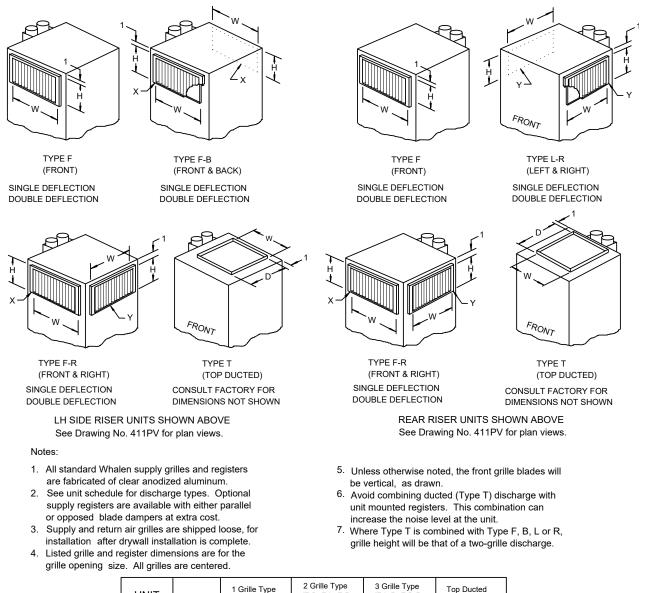


0.			Filter ¹								
Size (Tons)	Model	Fan Speed	MERV 4 (Fiberglass)	MERV 4 (Poly)	MERV 8	MERV 11	MERV 13				
		High	0.06	0.10	0.21	0.21	0.24				
03 (0.75)		Medium	0.04	0.06	0.15	0.16	0.17				
(0.75)		Low	0.02	0.03	0.09	0.10	0.09				
]	High	0.04	0.06	0.14	0.15	0.15				
04 (1.0)	- WRX	Medium	0.02	0.03	0.09	0.10	0.10				
(1.0)		Low	0.01	0.02	0.06	0.07	0.06				
		High	0.06	0.09	0.20	0.20	0.22				
06 (1.5)		Medium	0.04	0.05	0.13	0.14	0.14				
(1.5)		Low	0.02	0.02	0.07	0.08	0.07				
		High	0.06	0.10	0.21	0.21	0.24				
08 (2.0)		Medium	0.03	0.04	0.11	0.12	0.12				
(2.0)		Low	0.02	0.02	0.07	0.08	0.07				
		High	0.04	0.05	0.13	0.14	0.15				
10 (2.5)		Medium	0.02	0.03	0.08	0.09	0.09				
(2.5)		Low	0.01	0.02	0.05	0.06	0.05				
	1	High	0.04	0.06	0.14	0.15	0.15				
12		Medium	0.02	0.03	0.09	0.10	0.09				
(3.0)		Low	0.01	0.02	0.05	0.06	0.06				

1 Deduct these values from the available external static pressure shown in the respective Blower Performance Tables.



Inteli-line® Discharge Arrangements - LH Side and Rear Riser



UNIT SIZE GRILLE		1 Grille (F,B,L,	e Type R)	2 Grille Type (F-B, F-L, F-R, L-R, B-L, B-R)		3 Grille Type (F-L-R, F-B-R, F-B-L)		Top Ducted Type (T)	
UIZL		W	Н	W	Н	W	н	W	D
300		14	8	14	6	14	6	12	10
400		14	10	14	6	14	6	12	12
600		16	12	16	6	16	6	14	14
800		16	16	16	8	16	8	14	16
1000	х		OT LABLE	22	10	22	10	- 16 16	
1000	Y		OT LABLE	18	10	18	10	10	10
1200		NOT AVAILABLE		E			16	16	

DRAWING NUMBER 4511e JANUARY 2020

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All dimensions in inches

Inteli-line® Discharge Arrangements

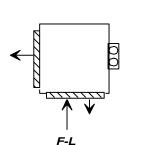
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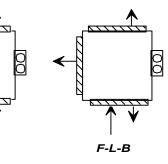
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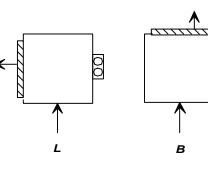
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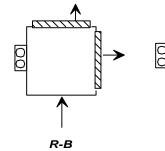


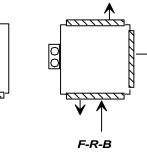
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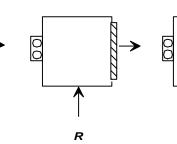


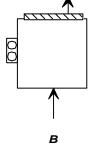


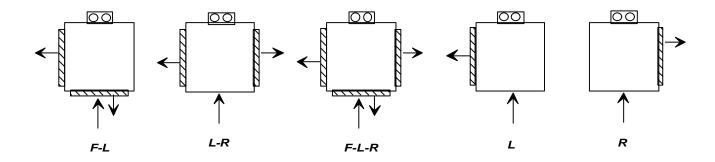


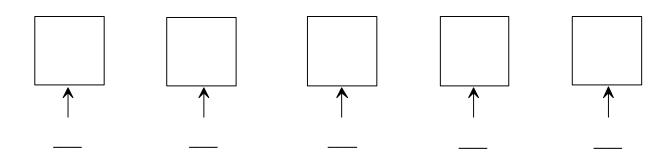












LARGE ARROW REPRESENTS RETURN AIR LOCATION AND SMALL ARROWS REPRESENT DISCHARGE LOCATION.

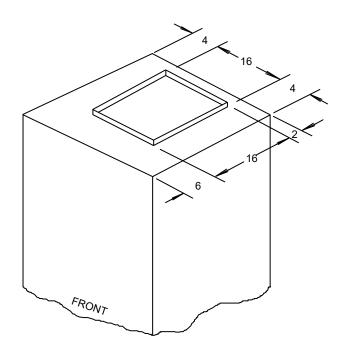
R = RIGHT

B = BACK OR REAR L = LEFT

F = FRONT T = TOP

DRAWING NUMBER 411PV DECEMBER 1998





TYPE T (TOP DUCTED)

> DRAWING NUMBER 411-V-K MAY 2013

Inteli-line[®] Cabinet Drawings

NOTES:

1. See drawing number 4511 for supply grille or register options. The return air grille is always on the front of the unit. 2. Cabinet is continuous galvanized steel, suitable for direct application of "drywall" plaster board.

3. Supply, return and drain risers are copper (see

4. See drawing number 408-PT for detailed riser

5. Remote thermostat is required on all size units

6. Power and remote thermostat connections are

7. Supply air options on WRX-102P & WRX-122P

Suppy air options on WRX-102P & WRX-102P models are specified on drawing 4511, minimum of two discharges on WRX-102P, excluding Type T. WRX-122P only available with Type T discharge.

located on riser side for side riser units and on right side for rear riser units.

dimensions and plan views.

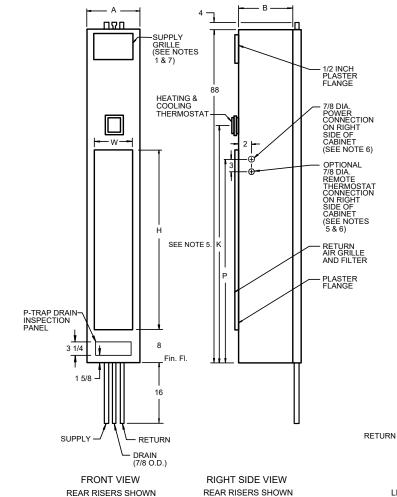
for 48" thermostat height.

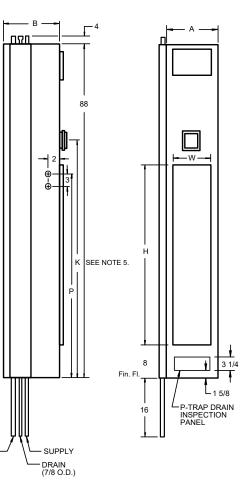
notes page for copper type). Riser assemblies include two ball valves inside the cabinet.

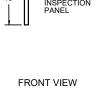
Standard units include high-pressure hose kits connection of the hydronic chassis.

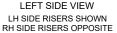


2 Pipe and Optional Electric Heat with Internal Drain Pan









LH SIDE RISERS SHOWN RH SIDE RISERS OPPOSITE

NOMINAL CFM UNIT MODEL Α в W н Κ Ρ WRX-032P 16 18 14 48 60 54 3/8 300 WRX-042P 400 16 18 14 56 68 62 3/8 WRX-062P 600 18 20 16 56 68 62 3/8 ** WRX-082P 800 18 20 16 60 66 3/8 ** WRX-102P 1000 24 20 22 64 70 WRX-122P 1200 24 20 22 68 ** 74 All dimensions in inches

** 800, 1000 & 1200 ONLY AVAILABLE AS REMOTE THERMOSTAT.

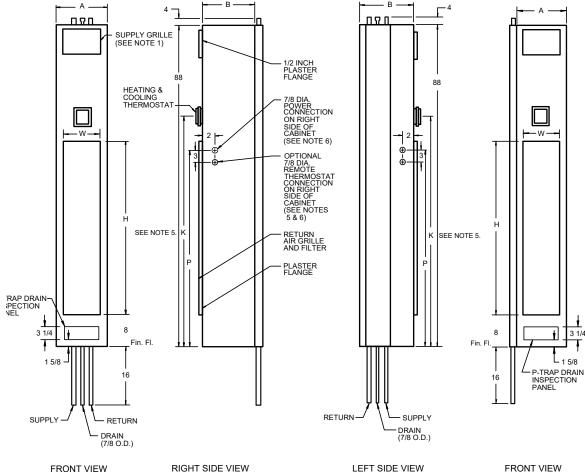
DRAWING NUMBER 454d-PT-ERA

MARCH 2017



Inteli-line[®] Cabinet Drawings

-w



REAR RISERS SHOWN

R

2 Pipe and Optional Electric Heat with Internal Drain Pan Split Riser Locations

REAR RISERS SHOWN

OTES:

See drawing number 4511 for supply grille or register options. The return air grille is always on the front of the unit.

Cabinet is continuous galvanized steel, suitable for direct application of "drywall" plaster board.

Supply, return and drain risers are copper (see notes page for copper type). Riser assemblies include two ball valves inside the cabinet. Standard units include high-pressure hose kits connection of the hydronic chassis.

See drawing number 408-PT-VIC for detailed riser dimensions and plan views.

Remote thermostat is required on all size units for 48" thermostat height.

Power and remote thermostat connections are located on riser side for side riser units and on right side for rear riser units.

Supply air options on WRX-102P & WRX-122P models are specified on drawing 4511, minimum of two discharges on WRX-102P, excluding Type T. WRX-122P only available with Type T discharge.

LEFT SIDE VIEW LH SIDE RISERS SHOWN RH SIDE RISERS OPPOSITE

FRONT VIEW LH SIDE RISERS SHOWN RH SIDE RISERS OPPOSITE

3 1/4 ŧ

L_{15/8}

UNIT MODEL	NOMINAL CFM	А	в	w	н	к	Р
WRX-032P	300	16	18	14	48	60	54 3/8
WRX-042P	400	16	18	14	56	68	62 3/8
WRX-062P	600	18	20	16	56	68	62 3/8
WRX-082P	800	18	20	16	60	**	66 3/8
WRX-102P	1000	24	20	22	64	**	70
WRX-122P	1200	24	20	22	68	**	74
All dimensions in inches.							

** 800, 1000 & 1200 ONLY AVAILABLE AS REMOTE THERMOSTAT.

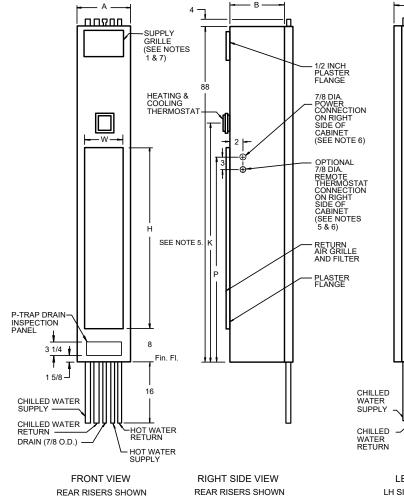
DRAWING NUMBER 454c-PT-ERA-VIC

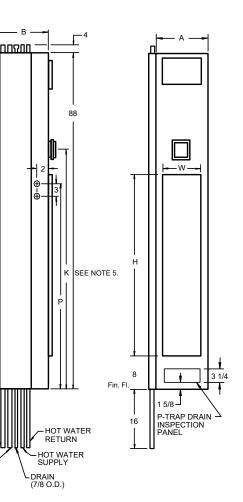
MARCH 2017



Inteli-line[®] Cabinet Drawings

4 Pipe and Optional Electric Heat with Internal Drain Pan





NOTES:

- 1. See drawing number 4511 for supply grille or register options. The return air grille is always on the front of the unit.
- 2. Cabinet is continuous galvanized steel, suitable for direct application of "drywall" plaster board.
- Supply, return and drain risers are copper (see notes page for copper type). Riser assemblies include four ball valves inside the cabinet. Standard units include high-pressure hose kits connection of the hydronic chassis.
- 4. See drawing number 409-PT for detailed riser dimensions and plan views.
- 5. Remote thermostat is required on all size units for 48" thermostat height.
- 6. Power and remote thermostat connections are located on riser side for side riser units and on right side for rear riser units.
- Supply air options on WRX-104P & WRX-124P models are specified on drawing 4511, minimum of two discharges on WRX-104P, excluding Type T. WRX-124P only available with Type T discharge.

LEFT SIDE VIEW LH SIDE RISERS SHOWN RH SIDE RISERS OPPOSITE

FRONT VIEW LH SIDE RISERS SHOWN RH SIDE RISERS OPPOSITE

UNIT MODEL	NOMINAL CFM	A	в	w	н	к	Р
WRX-034P	300	16	18	14	48	60	54 3/8
WRX-044P	400	16	18	14	56	68	62 3/8
WRX-064P	600	18	20	16	56	68	62 3/8
WRX-084P	800	18	20	16	60	**	66 3/8
WRX-104P	1000	24	20	22	64	**	70
WRX-124P	1200	24	20	22	68	**	74
All dimensions in inches.							

** 800, 1000 & 1200 ONLY AVAILABLE AS REMOTE THERMOSTAT.

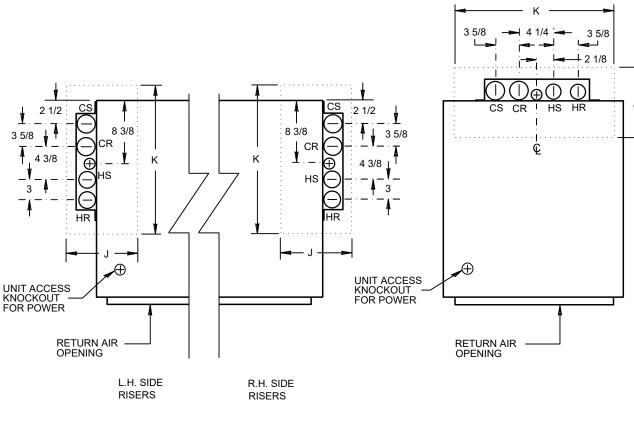
DRAWING NUMBER 453j-PT-ERA

MARCH 2017



Inteli-line® Riser Drawings

4 Pipe with Internal Drain Pan



SIDE RISERS

REAR RISERS

NI	o	۲n	0	
IN	U	ιe	5	

- 1. "Riser size" refers to the larger of the supply and return risers on each unit.
- Risers are protected by a steel riser cover extending the height of the cabinet. Risers are clamped to help prevent movement during shipment and jobsite handling.

RISER SIZE	MINIMUM J	MINIMUM K	
3/4	6	16	
1	6	16	
1 1/4	6	16	
1 1/2	6	16	
2	6	16	
2 1/2	8	17	

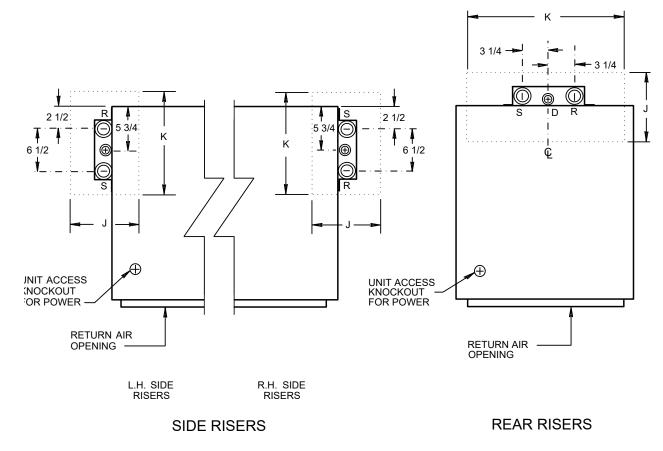
All dimensions in inches.

DRAWING NUMBER 409e-PT JANUARY 2017

Inteli-line® Riser Drawings



2 Pipe Units with Internal Drain Pan, Split Riser Location



Notes:

- 1. "Riser size" refers to the larger of the supply and return risers on each unit.
- Risers are protected by a steel riser cover extending the height of the cabinet. Risers are clamped to help prevent movement during shipment and jobsite handling.

RISER SIZE	MINIMUM J	MINIMUM K
3/4	6	12
1	6	12
1 1/4	6	12
1 1/2	6	12
2	6	12
2 1/2	8	14
3	8	14

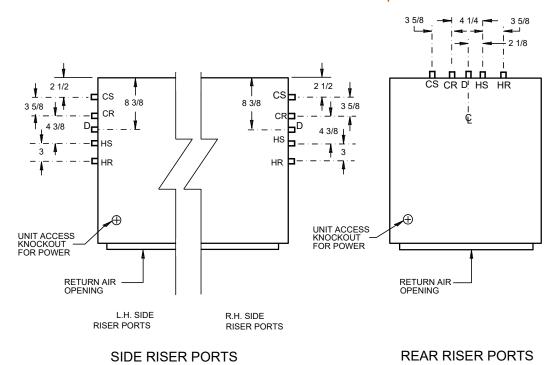
All dimensions in inches.

DRAWING NUMBER 408f-PT-VIC JANUARY 2017



Inteli-line[®] Riser Drawings

4 Pipe with Internal Drain Pan Risers by Others



DRAWING NUMBER 409f-PT-NR

JANUARY 2017



Mechanical Specifications

TWO PIPE OR FOUR PIPE ROOM FAN-COIL UNIT

PART 1 GENERAL

- 1.01 SECTION INCLUDES
 - A. Two Pipe, Two Pipe "Cooling Only", or Four Pipe Room Fan-Coil Unit
 - B. Two Pipe Room Fan-Coil Unit with (Auxiliary or Total) (CHOSE ONE) Electric Heat

1.02 RELATED SECTIONS

1.03 REFERENCES

- A. ETL listed under Underwriters Laboratories Standard for Safety UL 1995 4th Ed/CSA C22.2 No.236 4th Ed.
- B. ANSI/AHRI Standard 440.

1.04 DELIVERY, STORAGE AND HANDLING

A. Manufacturer to deliver products to site by floor or customer specific request. Units to be stored, protect from the weather and construction debris prior to installation. Units must be individually packaged. Units must be tagged with site location, model number and configuration.

1.05 ENVIRONMENTAL REQUIREMENTS

A. Protect units from construction debris by covering all openings prior to start-up of the equipment. Units must not be used for heating, cooling, or ventilation prior to the start-up of equipment for permanent use. Use of the equipment for the temporary heating, cooling or ventilation is prohibited.

PART 2 PRODUCTS

2.01 TYPE

- A. The fan-coil unit shall be of the factory assembled, integral fan type with hydronic cooling/heating coil, and/or electric heating element, integral supply, return and drain risers and all accessories.
 - a. ALTERNATE: Provide a slide out, removable hydronic chassis design that is not screwed or fastened to the cabinet. Chassis shall be base mounted and utilize a slide rail permitting removal by simply disconnecting two hoses and a polarized electrical plug. Designs simply incorporating hoses and multiple coil/ chassis fastening devices are unacceptable. The chassis shall be shipped separately from the fan-coil cabinets to prevent exposure to, and fouling from finishing work.

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2.02 CAPACITY

A. Shall be as indicated on the drawings or specifications, which are based on Whalen units.

2.03 CABINETS

- A. The one-piece unit cabinet shall be fabricated of reinforced 22 gauge continuous G90 galvanized steel with front panel attached via button-lock seaming to prevent air leakage. All internal assemblies shall be welded and treated to prevent corrosion.
- B. The cabinet shall be insulated with 1/2-inch thick 2-pound density thermal and acoustical fiberglass insulation having an integral water repellent, fungi and bacteria resistant barrier conforming to NFPA90A.
 - a. (OPTION 1) 1/2-inch thick elastomeric closed cell foam insulation. Insulation shall conform to NFPA 90A for fire, smoke and melting, and comply with a 25/50 Flame Spread and Smoke Developed Index per ASTM E-84 or UL 723.
 - b. (OPTION 2) 1/2-inch thick 1 1/2-pound density thermal and acoustical fiberglass insulation having an aluminum foil-faced coating conforming to NFPA90A.
- C. The cabinets shall be designed for direct attachment of gypsum wallboard.
- D. The cabinet shall allow the placement of vertical risers on any side not being used for service access or discharge air openings.
- E. The cabinet will have slots with edge protectors to accommodate movement of the risers with the isolation valves affixed. The slots shall remain covered with insulation to minimize air infiltration.
- F. Cabinet return and discharge air openings shall be factory cut and flanged on all sides. All insulation located behind cabinet openings must be removed by the unit manufacturer prior to shipment. Knockouts for field cutting are unacceptable.

2.04 COIL

A. The coil shall incorporate a manual air vent and be constructed of seamless copper tubing mechanically expanded into aluminum plate. Coil assembly shall be tested at the factory at not less than 320 PSIG.

2.05 FACTORY HYDRONIC PIPING

- A. The hydronic control valve shall be an electric two-way, two-position type with a 25-psi minimum shut-off differential and utilize fully removable power assemblies. Units to include one two-position control valve for chilled-water or heating coil in addition to a quantity of two ball valves with a two-piece, bronze body with full-port, chrome-plated bronze ball; with PTFE or TFE seats. Flexible high-pressure stainless steel hose kits to connect coil to risers
 - a. (OPTION 1) Balancing Valves: Bronze body, ball type; 125-psig (860-kPa) working pressure, 250-deg F (121-deg C) maximum operating temperature; with calibrated orifice or venturi, connections for portable differential pressure and temperature meter with integral seals, threaded ends, and equipped with a memory stop to retain set position.

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- b. (OPTION 2) Automatic Flow-Control Valve: Brass or ferrous-metal body; 300-psig (2070-kPa) working pressure at 250 deg F (121 deg C), with removable, corrosion-resistant, tamperproof, self-cleaning piston spring. Valve to be factory set to maintain constant indicated flow over operating range of valve.
- c. (OPTION 3) Automatic Flow-Control Valve: Brass or ferrous-metal body; to include one or more precision sculptured brass or polyphenylsulfone orifi with an elastomeric diaphragm. Each valve will automatically control flow to within +/- 10% of its rated flow, over a temperature range of 32 to 225°F, and a pressure differential range of 2 to 80 psid.
- d. (OPTION 4) Y-Pattern Hydronic Strainers: Brass or ferrous-metal body (ASTM A 126, Class B); 125-psig (860-kPa) working pressure; with threaded connections, bolted cover, perforated stainless-steel basket, and bottom drain connection. Valve to include connection for hose-bib, full-port, ball-type blowdown valve in drain connection.

2.06 RISERS

- A. The unit shall incorporate a factory assembled type "M" copper supply, return and drain risers of suitable length to reach floor-to-floor without additional contractor furnished material. All risers shall be protected by a galvanized steel pipe chase the length of the cabinet. The supply and return risers shall be insulated the length of the cabinet with ½" thick Armaflex or equal closed cell insulation. The drain riser shall be factory insulated with 3/8" thick Armaflex or equal closed cell insulation the length of the cabinet.
 - a. (OPTION 1) The unit shall incorporate a factory assembled type "L" copper supply, return and drain risers of suitable length to reach floor-to-floor without additional contractor furnished material.
 - b. (OPTION 2) The supply, return and drain riser extensions shall be factory-insulated with ½ inch Armaflex or equal on the chilled water and hot water riser and 3/8 inch Armaflex or equal on the drain riser.

2.07 DRAIN PAN

A. Drain pan shall collect and drain condensate that may form from any component internal to the fan-coil unit and shall be fabricated of welded and soldered 20 Ga. 304 stainless steel. The copper condensate drain shall be rolled and soldered into the pan.

2.08 FANS

A. The fan shall be slow speed forward curved centrifugal type, and shall be accessible for removal and maintenance through the return air opening.

2.09 MOTORS

A. Motor shall be of the permanent split capacitor (PSC) type, suitable for the current characteristics shown on the drawings, and shall have built-in thermal overload protection. Motors shall be two-speed type with 1050 RPM maximum.

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B. (OPTION 1) Motors shall be electronically commutated high-efficiency, programmable brushless DC, totally enclosed, permanently lubricated sleeve bearing, type with automatic reset integral thermal overload protection and resiliently mounted. The ECM fan motor shall provide soft starting and maintain constant torque output over its operating range.

2.10 SUPPLY GRILLES

A. (STANDARD) The supply grilles shall be of the single deflection type fabricated of clear anodized aluminum. All supply openings shall be painted black with a damper assembly and sight baffle provided when one unit is serving two separate rooms.

(OPTION 1) The supply grilles shall be of the single deflection type fabricated of (factory white painted extruded aluminum) or (custom painted extruded aluminum). (SELECT ONE) All supply openings shall be painted black with a damper assembly and sight baffle provided when one unit is serving two separate rooms.

(OPTION 2) The supply grilles shall be of the double deflection type fabricated of (clear anodized extruded aluminum), (factory white painted extruded aluminum) or (custom painted extruded aluminum). (SELECT ONE) All supply openings shall be painted black with a damper assembly and sight baffle provided when one unit is serving two separate rooms.

(OPTION) Insulated Sight Baffle - Sound insulation shall be furnished on the sight baffle to limit the transmission of sound between two rooms utilizing the same unit.

B. Steel grilles are not acceptable.

2.11 RETURN AIR PANEL

A. (STANDARD) Standard Return Air Grille – The return air opening shall be covered with a clear anodized extruded aluminum return air grille that is attached directly to the unit with two screws.

(OPTION 1) The return air opening shall be covered with a factory white painted extruded aluminum return air grille that is attached directly to the unit with two screws.

(OPTION 2) The return air opening shall be covered with a custom painted extruded aluminum return air grille that is attached directly to the unit with two screws.

(OPTION 3) Hinged Return Air Grille – The return air opening shall be covered with a clear anodized extruded aluminum hinged return air grille that is attached directly to the unit with two screws and contains quick removal fasteners for easy filter maintenance.

(OPTION 4) The return air opening shall be covered with a factory white painted extruded aluminum hinged return air grille that is attached directly to the unit with two screws and incorporates quick removal fasteners for easy filter maintenance.

(OPTION 5) The return air opening shall be covered with an aluminum or factory-white finished hinged air grille that is attached directly to the unit with two screws and contains quick removal fasteners for easy filter maintenance. The lower portion of the door shall be louvered, and the upper portion shall be blank, or provided with an optional hole for a panel-mounted thermostat.

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B. A second return air opening shall be included when one unit is serving two separate rooms. The second opening shall be located on the rear of the unit and allow the return air to pass through the cooling/heating coil prior to entering the conditioned space.

2.12 FILTERS

- A. Standard filter shall be 1" thick disposable fiberglass media, MERV 4.
 - a. (OPTION 1) Filters shall be 1" thick disposable pleated media, MERV 8.
 - b. (OPTION 2) Filters shall be 1" thick disposable pleated media, MERV 11.
 - b. (OPTION 3) Filters shall be 1" thick disposable pleated media, MERV 13.
 - d. (OPTION 4) Filters shall be 1" thick permanent aluminum cleanable media, MERV 4.

2.13 OUTDOOR AIR

- A. (OPTION 1) Each unit includes an Outdoor Air (OA) opening, located on the (right) or (left) (SELECT ONE) side of cabinet and manual block-off damper.
- B. (OPTION 2) Each unit includes an Outdoor Air (OA) opening, located on the (right) or (left) (SELECT ONE) side of cabinet and a motorized outdoor air damper to restrict airflow when the unit is not in the heating or cooling mode.

2.14 POWER SUPPLY

- A. Two Pipe, Two Pipe "Cooling Only", or Four Pipe Room Fan-Coil Unit
 - a. The unit manufacturer shall furnish a (115/1/60 or 208/1/60 or 265/1/60) (SELECT ONE) single source single point power connection for the fan. Power connections are made to the unit junction box through a 7/8" knockout located on both the left and right sides of the unit as shown on the drawings.
 - b. (Option 1) The unit manufacturer shall furnish a 265/1/60 volt single source single point power connection for the fan including a control circuit transformer for a 24-volt thermostat. Power connections are made to the unit junction box through a 7/8" knockout located on both the left and right sides of the unit as shown on the drawings.
- B. Two Pipe Room Fan-Coil Unit with (Auxiliary or Total) (CHOSE ONE) Electric Heat
 - a. The unit manufacturer shall furnish a separate line voltage power connection for the fan and electric heating element. The fan coil unit shall operate at 115 volts and the electric heat elements shall operate at (208/1/60 or 265/1/60) (SELECT ONE). Power connections are made to the unit junction box through 7/8" knockouts located on both the left and right sides of the unit as shown on the drawings.
 - b. (Option 1) The unit manufacturer shall furnish a (115/1/60 or 208/1/60 or 265/1/60) (SELECT ONE) single source single point power connection for the fan and electric heating element. Power connections are made to the unit junction box through a 7/8" knockout located on both the left and right sides of the unit as shown on the drawings.

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- c. (Option 2) The unit manufacturer shall furnish a 115/230 volt three wire single source single point power connection for the fan and electric heating element. The electric heat elements shall operate at 230/1/60 and the fan shall operate at 115/1/60. Power connections are made to the unit junction box through a 7/8" knockout located on both the left and right sides of the unit as shown on the drawings.
- d. (Option 3) The unit manufacturer shall furnish a 265/1/60 volt single source single point power connection for the fan and electric heating element including a control circuit transformer for a 24-volt thermostat.
 Power connections are made to the unit junction box through a 7/8" knockout located on both the left and right sides of the unit as shown on the drawings.

2.14 DISCONNECT

A. (OPTION 1) Each unit shall include a non-fused disconnect switch, factory mounted and wired.

(OPTION 2) Each unit shall include a supplemental overcurrent protector (circuit breaker), factory mounted and wired.

2.15 CONTROLS

- A. Two Pipe, Two Pipe "Cooling Only", or Four Pipe Room Fan-Coil Unit
 - a. (STANDARD) The unit manufacturer shall furnish a (115/1/60 or 208/1/60 or 265/1/60) (SELECT ONE) wall thermostat for field mounting on the front of the unit after the wall is finished. The thermostat shall plug into the unit through a polarized male-female plug. The thermostat shall be of the automatic changeover type, and shall incorporate a HI-MED-LO fan speed switch.
 - b. (OPTION 1) The unit manufacturer shall furnish a 24-volt thermostat that shall plug into the unit through a polarized male-female plug. The thermostat shall be of the automatic changeover type and incorporate a HI-MED-LO fan speed switch.
 - c. (OPTION 2) The unit manufacturer shall furnish a (24-volt or 115-volt) (SELECT ONE) thermostat for remote mounting. The unit shall be provided with a junction box for connection of the thermostat field wiring to the top or bottom of the unit as shown in the drawings. The thermostat shall be of the automatic changeover type and incorporate a HI-MED-LO fan speed switch.
 - d. (OPTION 3) The unit manufacturer shall be furnish a 115-volt factory wired remote thermostat with 6 feet of flexible conduit connected to the top of the unit. The thermostat that shall plug into the factory furnished junction box through a polarized male-female plug. The thermostat shall be of the automatic changeover type and incorporate a HI-MED-LO fan speed switch.
- B. Two Pipe Room Fan-Coil Unit with (Auxiliary or Total) (CHOSE ONE) Electric Heat
 - a. (STANDARD) The unit manufacturer shall furnish a (115/1/60 or 208/1/60 or 265/1/60) (SELECT ONE) wall thermostat for field mounting on the front of the unit after the wall is finished. The thermostat shall plug into the unit through a polarized male-female plug. The thermostat shall be of the automatic changeover type, and shall incorporate a HI-MED-LO fan speed switch.

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- b. (OPTION 1) The unit manufacturer shall furnish a 24-volt thermostat that shall plug into the unit through a polarized male-female plug. The thermostat shall be of the automatic changeover type and incorporate a HI-MED-LO fan speed switch. The unit manufacturer shall also furnish a factory mounted and wired electric heat lockout aquastat to prevent electric heat when hot water heat is available.
- c. (OPTION 2) The unit manufacturer shall furnish a (24-volt or 115-volt) (SELECT ONE) thermostat for remote mounting. The unit shall be provided with a junction box for connection of the thermostat field wiring to the top or bottom of the unit as shown in the drawings. The thermostat shall be of the automatic changeover type and incorporate a HI-MED-LO fan speed switch. The unit manufacturer shall also furnish a factory mounted and wired electric heat lockout aquastat to prevent electric heat when hot water heat is available.
- d. (OPTION 3) The unit manufacturer shall be furnish a 115-volt factory wired remote thermostat with 6 feet of flexible conduit connected to the top of the unit. The thermostat that shall plug into the factory furnished junction box through a polarized male-female plug. The thermostat shall be of the automatic changeover type and incorporate a HI-MED-LO fan speed switch. The unit manufacturer shall also furnish a factory mounted and wired electric heat lockout aquastat to prevent electric heat when hot water heat is available
- C. Others shall install thermostat by plugging into the control wiring with a polarized male-female plug after the walls are finished when unit mounted or attaching to color coded pigtails when remote mounted.

2.16 SPARE PARTS

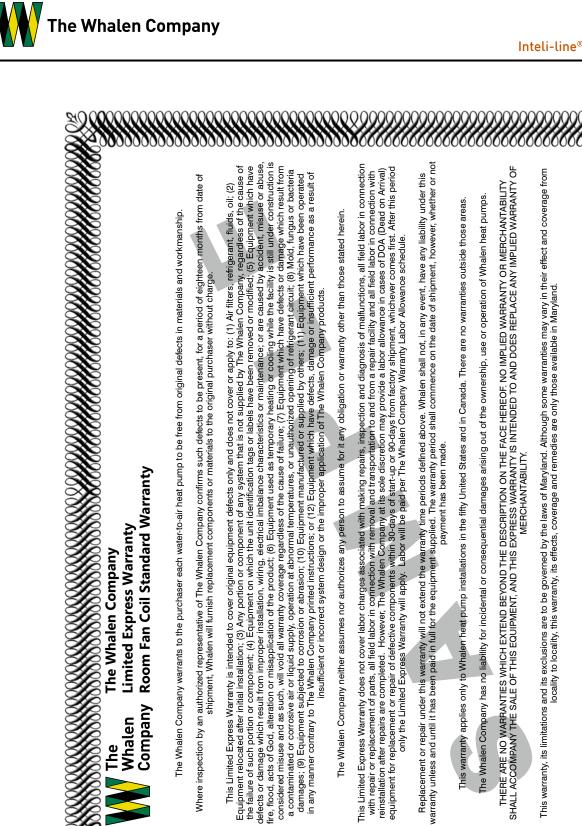
A. (ADD ANY SPARE PART REQUIREMENT HERE)

PART 3 EXECUTION

3.01 INSTALLATION

- A. Furnish as shown on the drawings and as specified herein, with capacity and electrical characteristics as scheduled. Units shall be Room Fan Coil as manufactured by The Whalen Company of Easton, MD.
- B. Install in accordance with manufacturer's installation instructions. Install units plumb and level, and maintain manufacturer's recommended clearances for the unit and accessories.

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governed by the laws of Maryland. Although some warranties may vary in their effect and coverage from inty, its effects, coverage and remedies are only those available in Maryland.

This warranty, its limitations and its exclusions are to be govern locality to locality, this warranty, its

Rev: 12/2020

MERCHANTABILITY

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Inteli-line® Design Guide Revision Table

Date	Description
1/25/21	Updated Warranty Certificates
9/29/20	Updated Thermostat Extension in Nomenclature
2/21/20	Added Drawing numbers to Discharge Arrangements
7/24/19	Added WRX Dual Path Performace Table
4/5/19	Updated Cabinet & Chassis Nomenclature
8/29/18	Performance Data Updated
3/7/18	Constant Volume EC Motor Information Removed, Miscellaneous Updates
8/1/17	Thermostat Table Updated
7/3/17	Performance Data Updated
7/3/17	Constant Torque EC Motor Table Corrected
4/28/17	Addition of Inteli-line Name
3/14/17	AHRI Performance Data Table Updated
3/14/17	Riser Drawings Updated
3/14/17	Cabinet Drawings Updated
3/14/17	PSC Blower Table Updated
10/5/2016	Cabinet Drawings Updated
5/3/2016	Cabinet Drawings Updated
12/2015	New Release of document





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