



Model XC

Indoor or outdoor mounted, simple, in-case aluminum flat plate exchanger with options for frost control. Ideal for inline installations: in duct-work systems, in built-up units, or in modular systems for commercial or industrial applications.

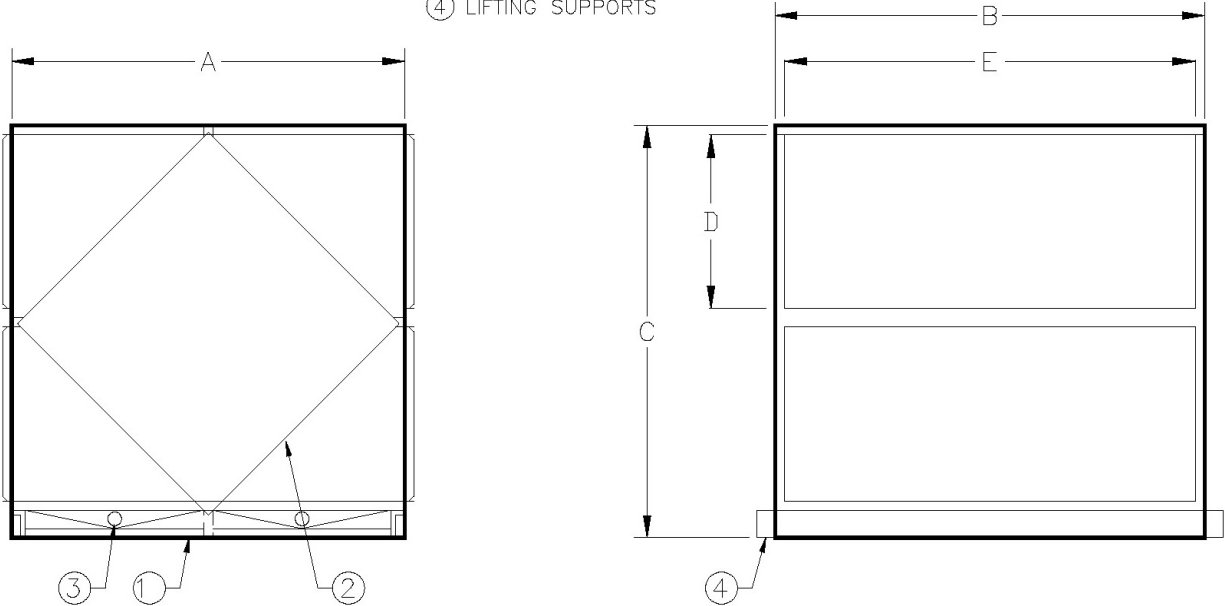


- The XC is a minimum exchanger package with multiple configurations, ranging from simple duct flanges to units ready for rooftop installation, designed to fit nearly any application as an add-on to other or existing equipment.
- Options include drain pans, face-and-bypass frost control, dampers, filters, and outdoor intake and exhaust hoods.

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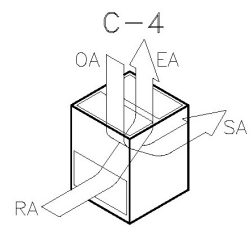
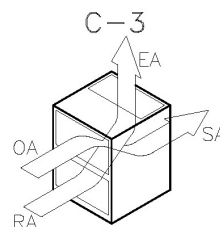
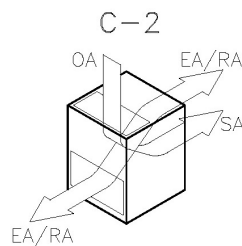
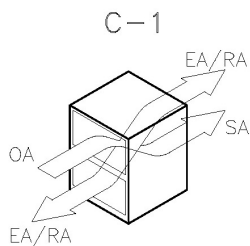
Model: XC

- ① HEAVY GAUGE GALVANIZED STEEL CASE
- ② ALUMINUM FLAT PLATE HEAT EXCHANGER
- ③ NPT DRAINS
- ④ LIFTING SUPPORTS



Model #	Dimension (Inches)						Est. Weight (lbs)	Nominal CFM
	A	B	C*	D	E	Drains		
XC-20-18	36	20	37	14	16	0.75	250	1,000
XC-20-24	36	26	37	14	22	0.75	300	1,500
XC-20-36	36	38	37	14	34	0.75	350	2,200
XC-24-24	40	26	43	17	22	0.75	400	1,700
XC-24-36	40	38	43	17	34	0.75	500	2,600
XC-24-48	40	50	43	17	46	0.75	600	3,500
XC-30-24	50	26	52	20	22	1.0	500	2,200
XC-30-36	50	38	52	20	34	1.0	600	3,500
XC-30-48	50	50	52	20	46	1.0	800	5,000
XC-30-60	50	62	52	20	58	1.0	900	6,000
XC-40-36	64	38	66	27	34	1.0	850	4,500
XC-40-48	64	50	66	27	46	1.0	1,100	6,500
XC-40-60	64	62	66	27	58	1.5	1,250	8,200
XC-40-72	64	76	66	27	70	1.5	1,850	9,800
XC-50-48	76	52	80	34	46	1.5	2,000	7,800
XC-50-60	76	64	80	34	56	2.0	2,250	10,000
XC-50-72	76	76	80	34	68	2.0	2,500	12,000
XC-50-96	76	100	80	34	92	2.0	3,100	16,000
XC-50-108	76	112	80	34	104	2.0	3,350	18,000
XC-60-60	90	64	94	40	56	2.0	2,650	13,000
XC-60-72	90	76	94	40	68	2.0	3,000	16,000
XC-60-96	90	100	94	40	92	2.0	3,750	21,000
XC-60-108	90	112	94	40	104	2.0	4,000	24,000
XC-80-72	120	76	130	52	68	2.0	4,650	21,000
XC-80-96	120	100	130	52	92	2.0	5,750	28,000
XC-80-108	120	112	130	52	104	2.0	6,250	32,000
XC-80-120	120	124	130	52	116	2.0	7,000	36,000

* Does not include custom height of Roof Curb.

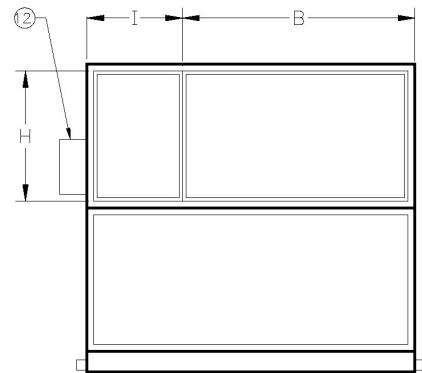
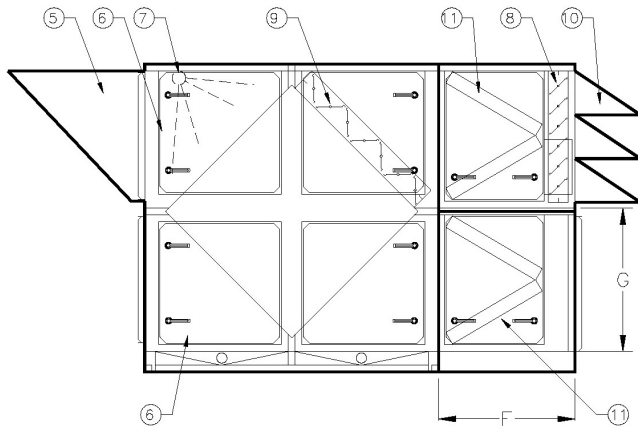


Consult factory for other available configurations.

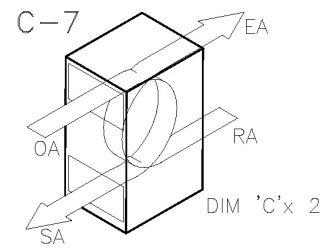
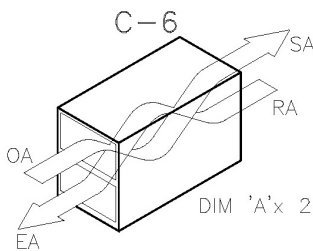
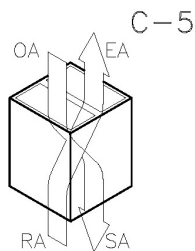
XC Options

OPTIONS

- ⑤ EXHAUST AIR WEATHERHOOD WITH BIRDSCREEN
- ⑥ ACCESS DOOR WITH CAM-LOK LATCHES
- ⑦ WATERWASH OR INDIRECT EVAP. COOLING SPRAY
- ⑧ OUTSIDE AIR SHUTOFF DAMPER
- ⑨ FACE AND BYPASS DAMPER
- ⑩ OUTSIDE AIR WEATHERHOOD
- ⑪ 2" 30/30 TYPE PLEATED FILTER SECTION (FOR SUPPLY AND/OR RETURN AIR)
- ⑫ DAMPER OPERATOR AND CONTROLS
- 13 ALL ALUMINUM CASE



Model #	Dimension (Inches)			
	F	G	H	I
XC-20-18	14	14	13	6
XC-20-24	14	14	13	8
XC-20-36	14	14	13	12
XC-24-24	24	17	16	8
XC-24-36	24	17	16	12
XC-24-48	24	17	16	16
XC-30-24	26	20	19	8
XC-30-36	26	20	19	12
XC-30-48	26	20	19	16
XC-30-60	26	20	19	20
XC-40-36	26	28	27	12
XC-40-48	26	28	27	16
XC-40-60	26	28	27	20
XC-40-72	26	28	27	24
XC-50-48	28	34	33	16
XC-50-60	28	34	33	20
XC-50-72	28	34	33	24
XC-50-96	28	34	33	32
XC-50-108	28	34	33	36
XC-60-60	28	44	40	20
XC-60-72	28	44	40	24
XC-60-96	28	44	40	32
XC-60-108	28	44	40	36
XC-80-72	28	56	52	24
XC-80-96	28	56	52	32
XC-80-108	28	56	52	36
XC-80-120	28	56	52	40



Double Pass Configurations

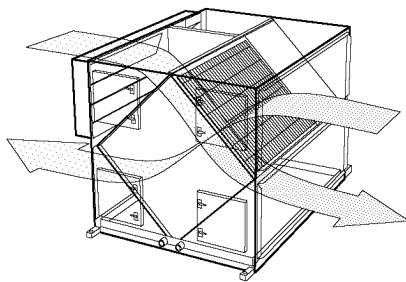
Adding Energy Recovery to an Existing System

Although all XeteX units can be supplied with heaters, coils, blowers, advanced controls, and many other options, some systems require energy recovery and nothing else. Such units consist of a flat plate heat exchanger and a simple control system. They can be installed in ductwork or can be added as a module to pre-existing HVAC equipment. It's a simple solution that allows energy recovery to be incorporated into any ventilation system.



Performance Specification

Model: **XC-40-48-BP-RT**
Supply cfm: 6,270
Exhaust cfm: 6,370
Built: March 2005
Dimensions: 64" H, 96" L, 62" W
Weight: 1,500 lbs
Energy Recovered: 267 MBH (Winter)
Energy Recovered: 88 MBH (Summer)
Design Conditions: 11 °F / 62% RH (Winter)
Design Conditions: 94 °F / 39% RH (Summer)



Unit Features

- XLT-40-48 Aluminum, Flat Plate Heat Exchanger
- Heavy Duty Double Wall (18 ga / 22 ga) Galvanized Steel Cabinet, 1" thick Fiberglass Insulation
- Complete with Disconnect and Single Point Power Connection
- Frost Control and Warm Weather Economizer
- 2" MERV 8 (30/30) Outside Air and Return Air Filters
- Configured for Indoor installation
- Face-and-Bypass Damper
- Galvanized Steel Drain Pan

High Volume Energy Recovery for a Hospital

This XC Unit was one of four built in Sept 2005 for a Critical Care Hospital in Ontario. It provides 25,277 supply and return air cfm and features a large Model XLT™ 80–84 flat plate aluminum air-to-air heat exchanger, cabinet, face-and-bypass frost control, and filters.

The exchanger recovers 1,315 MBH at winter design conditions raising the outside air to 46°F. At summer design conditions, it recovers 280 MBH lowering the outside air temp to 85 °F.

Performance Specification

Model: **XC-80-84-BP-RT**
Supply cfm: 25,277
Exhaust cfm: 25,277
Built: September 2005
Dimensions: 128" H, 130" L, 116" W
Weight: 6,000 lbs
Energy Recovered: 1,315 MBH (Winter)
280 MBH (Summer)
Design Conditions: -20 °F / 100% RH (Winter)
90 °F / 42% RH (Summer)



With End Panels Removed, the Face-and-Bypass Damper behind the Filter Rack is visible.



With End Panels and Filters in place

Unit Features

- XLT-80-84 Aluminum, Flat Plate Heat Exchanger
- Heavy Duty Double Wall (18 ga / 22 ga) Galvanized Steel Cabinet, 1" thick Fiberglass Insulation
- Complete with Disconnect and Single Point Power Connection
- Base Frame is Welded Structural Steel with Integral Lifting Lugs
- 2" MERV 8 (30/30) Outside Air and Return Air Filters
- Configured for Indoor installation
- Face-and-Bypass Damper provides Frost Control and Economizer Functions
- Galvanized Steel Drain Pan

Model XC Unit Specification

Contractor shall provide a Model XC [indoor or outdoor] mounted air-to-air heat recovery module as manufactured by XeteX, Inc. Unit to include aluminum flat plate exchanger in case including specified options. Options include outside and return air filters, face-and-bypass dampers, and adjustable frost control.

Unit shall have a [welded structural steel base coated with rust inhibiting paint for units 30-48 and above, welded, formed, heavy-gauge, galvanized sheet metal base for smaller units]. Lifting lugs shall be an integral part of the base. Unit floor shall be minimum 16 gauge galvanized steel with rigid foam insulation.

Unit housing shall be of formed, heavy-gauge galvanized steel supports, 18 gauge min. Panels to be 18 gauge galvanized steel (option—High Performance Acrylic coated galvanealed) with 1" thick, 3# density, hardboard fiberglass insulation with reinforced aluminum lining secured with metal clips and sealed with aluminum tape and silicone sealant (optional 1.5", 2", and 4" double wall) to provide a complete vapor barrier and non-contaminating surface to all air streams. Framing and panels of dissimilar metals that could create a galvanic effect are not allowed. Unit shall have a full length and width drain pan minimum 3" deep with MPT drains on supply and exhaust air plenums.

Provide access to all exchanger surfaces and filters through double wall gasketed access doors held closed by adjustable cam-lock latches. Continuous hollow rubber gasket shall be applied to all access openings to provide water and airtight seals.

Air-to-air heat exchanger shall be an XLT stationary, aluminum, flat-plate type manufactured by XeteX. Heat transfer surface shall be formed aluminum plates [0.008" H and F, 0.012" P] thick [with enhanced surface corrugation for increased performance H and P]. Exchanger frame profiles shall be all aluminum with coated sheet metal end plates. Exchanger shall be capable of withstanding a pressure difference between airflows of up to [7.2" w.g. H, 3.2" w.g. F, and 27" w.g. P] without deforming air passages. Unit shall be capable of operating in temperatures up to [190 °F standard construction and 390 °F optional]. Standard cell construction shall have a maximum cross contamination between airflows of 0.1% of total airflow. The entire cell shall be capable of being visibly inspected and cleaned as required. [Options: corrosion resistant exchanger shall have a baked-on epoxy coating applied to all heat transfer surfaces prior to assembly; additional tightness-sealing lacquer shall be applied to the joints; additional corrosion resistance shall be provided by powder coating frame profiles and end plates; exchanger shall be leakage tested with testing certificate.]

Options

Outdoor air and return air filters shall be 2" pleated 30/30 type. Filters shall be mounted within unit in galvanized holding frames upstream of exchanger and accessible through access panels.

Dampers shall have heavy duty extruded aluminum frames and 4" extruded aluminum air-foil blades mounted on brass shafts and supported and inter-connected by nylon gears. Low leakage dampers shall have hollow rubber jamb seals built into both the blades and the frame. The side casings shall enclose the gears with ABS plastic covers that also serve as seals in the closed position. Outside air dampers shall be mounted on the inlet of the unit and operated by a spring return direct-coupled actuator with an end switch to be interlocked with the supply air motor relay. Exhaust air backdraft damper to be parallel blade. Face-and-bypass dampers shall be interlocked so that when the face damper is open the bypass damper shall be closed.

Weatherized outdoor construction shall include sloped roof panels with rain gutters that overhang the sidewalls to shed water away from access panels, capped roof seams, intake and exhaust weather hoods with bird-screens, outside air shut-off damper, and exhaust air backdraft damper. Secondary roof panels that could trap moisture are not allowed. Roof curb shall be 16 gauge (minimum) galvanized steel with additional supports and cross members as needed. Curb to have 1.5" thick fiberglass insulation and wood nailer.