

# COMPANY PROFILE

**armcor**  
air solutions



# ABOUT US

Since commencing operations in 1978, Armcor Air Solutions has grown to be a respected HVAC manufacturer with a track record in providing advice, supply of quality equipment and follow up support.

Our Heat Recovery and Air Handling Units are manufactured in Australia, providing quality products with flexible design and lead times.

## SERVICES ON OFFER



Design



Manufacturing



Engineering

## COMPANY VALUES

### HARD WORK

We are a committed hard working team that puts in every effort to achieve results. We come to work to work.

### CARE

We have a positive attitude towards our work, where everyone is valued. We respect the rights, feelings, and property of others.

### CUSTOMER

Our customer is at the centre of everything we do. We exceed their expectations every time.

### INTEGRITY

We are transparent, honest, and ethical. Our communications and actions consistently reflect our high moral standards.

### INITIATIVE

We are solution focused, forward thinking and well planned in order to get the job done for the wellbeing of the business.

### ACCOUNTABILITY

We are answerable for achieving the required outcome correctly, thoroughly, and efficiently.





# PROJECT SHOWCASE



## WILLIAMSTOWN HIGH SCHOOL

**Location:** Williamstown VIC

**Mechanical Consultant:** O'Conner & Associates

**Contractor:** JKC Airconditioning

**Equipment:** XEP3500EM



## END OF TRIP FACILITY

**Location:** Milton QLD

**Mechanical Consultant:** Wood & Grieve Engineers

**Contractor:** Finn Air Pty Ltd

**Equipment:** XEM1200



## MT ISA HOSPITAL

**Location:** Mt Isa QLD

**Distributor:** Northern Air

**Equipment:** AHU2500P3, AHU1200P3, AHU900P3, AHU500P3



## LATITUDE AT LEIGHTON BEACH

**Location:** Leighton Beach WA

**Mechanical Consultant:** Triple M Group of Companies

**Distributor:** Turner Engineering

**Equipment:** AHU300P3, AHU400P3, AHU600P3, AHU800P3

# EXTERNAL UNITS ERV

## EXTERNAL MOUNT ERV, XEM 500-8000

The XEM series is our standard heat recovery ERV solution for rooftop, ground level or plant room applications. These units utilize the Xchange plate heat exchanger to recover the energy from the exhaust air and transfer it to the incoming fresh air, resulting in significant energy savings. Both enthalpy and sensible heat exchange media are available. The XEM Series is particularly suited to an optional economy bypass system.

Forward curve centrifugal fans provide initial cost savings and are available in models XEM300C1 to XEM1200CQ. EC Plug fans provide speed control and add energy savings and are available in models XEM500P1 to XEM8000P1.

**Larger equipment can be specifically designed for applications up to 18,000 L/sec.**

### UNITS ARE READILY AVAILABLE TO SUIT APPLICATIONS SUCH AS:

- Commercial public activity venues, sporting complexes, and gymnasiums
- Public utility buildings, Police, Ambulance stations
- Nursing homes, Child care, Education
- Large occupancy buildings and retail showrooms
- Professional suites

### OPTIONS INCLUDE:

- Enthalpy or Sensible Media
- Hot and Chilled Water Coils
- Economy Cycle
- Various control option



MODEL	NOMINAL CAPACITY (I/SEC)	ENERGY RECOVERED (COOLING) KW	ENERGY RECOVERED (HEATING) KW*	DIMENSIONS (MM) H x W x L
XEM500	300 - 500	10.3	10.8	1400 x 900 x 1500
XEM900	600 - 900	16.6	17.3	1700 x 900 x 1800
XEM1200	1000 - 1200	22.5	23.5	1700 x 1300 x 1800
XEM1700	1300 - 1700	33.8	35.3	2000 x 1700 x 2200
XEM2000	1800 - 2000	40.2	41.9	2000 x 2100 x 2200
XEM2500	2000 - 2500	48.5	50.6	2000 x 2100 x 2200
XEM3000	2500 - 3000	58.2	60.7	2000 x 2500 x 2300
XEM4000	4000	75.9	79.2	2000 x 2900 x 2300
XEM5000	5000	93.6	97.6	2000 x 3300 x 2300
XEM6000	6000	113.0	117.9	2000 x 4100 x 2300
XEM7000	7000	132.5	138.0	2000 x 4900 x 2300
XEM8000	8000	151.9	158.4	2000 x 5700 x 2300

\*Rated at Standard Conditions of Summer 38odb/40%RH. Winter 3odb/68%RH

\*Subject to change

## HOT+CHILLED WATER COILS, XEC 500-8000

The XEC series combines ERV with an inbuilt chilled water and/or hot water coils to condition the air following the heat recovery process. The unit configuration suits external rooftop or plant room applications and is available with forward curved centrifugal fans or energy saving EC Plug Fans and an option of enthalpy or sensible plate heat exchange media. An optional economy system is easily accommodated by increasing the width of the unit to allow bypass for both fresh and exhaust air.

**Standard capacities available from 300 l/sec to 8,000 l/sec.**

## INDIRECT EVAPORATIVE COOLING, XEI 500-8000

The XEI range combines the energy efficiency of a plate heat exchanger with an inbuilt evaporative pad to pre cool the fresh air before it flows through the heat exchanger. This indirect application enhances the temperature reduction of the fresh air without adding additional humidity. Unit configuration suits external rooftop or in a plant room applications and include energy saving EC Plug Fans, in-built filters and a sensible heat exchange media. An optional economy system is easily accommodated by increasing the width of the unit to allow bypass for both fresh and exhaust air.

**Standard capacities available from 300 l/sec to 8,000 l/sec.**

# CEILING MOUNT ERV

## CEILING MOUNT ERV, XCM 80-1200

The XCM series is a compact, horizontal low profile heat recovery unit designed for installation within a roof space. These ERV units utilize the Xchange plate heat exchanger to recover the energy from the exhaust air into the incoming fresh air, resulting in significant energy savings. Both enthalpy and sensible heat exchange media are available. The option of EC Plug Fans makes this our star achiever in energy savings and controllability.

### SUITABLE FOR ANY APPLICATION WHERE THERE IS A REQUIREMENT FOR FRESH AIR SUCH AS:

- Commercial offices, child care and education
- Apartment bathroom exhaust
- Residential damp and mould control
- Public occupancy buildings
- Professional suites

## CEILING MOUNT FAN COIL, XCC 300-1200

The XCC series is a low-profile energy recovery ventilator with the addition of an add-on-coil. Designed for installation in a roof space, these ERV units utilise the Xchange plate heat exchanger with either enthalpy or sensible media. The coils are designed to match with standard commercially available condensers such the Temperzone range. Optional Hot water and chilled water coils can also be used. EC Plug Fans and in-built panel filters are standard making this solution a very flexible way to incorporate heat recovery into a ceiling mounted fan coil.



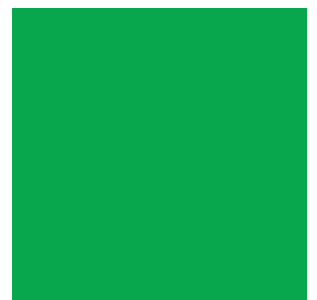
CEILING MOUNT FAN COIL, XCC 300-1200 (front view)



CEILING MOUNT FAN COIL, XCC 300-1200 (back view)



CEILING MOUNT ERV, XEM 500-8000



MODEL CENTRIFUGAL FAN	MODEL EC PLUG FAN	NOMINAL CAPACITY (I/SEC)	ENERGY RECOVERED (COOLING) KW*	ENERGY RECOVERED (HEATING) KW*	DIMENSIONS (MM) H x W x L
-	XCM80P1	80	1.4	1.3	220 x 800 x 800
-	XCM150P1	150	2.4	2.4	270 x 600 x 900
XCM200C1	-	200	6.0	4.7	350 x 800 x 1000
-	XCM200P1	200	6.0	4.7	350 x 800 x 1000
XCM300C1	-	300	6.5	5.1	430 x 950 x 1150
-	XCM300P1	300	6.5	5.1	430 x 950 x 1150
XCM400C1	-	400	8.2	6.5	430 x 950 x 1150
-	XCM400P1	400	8.2	6.5	430 x 950 x 1150
XCM600C1	-	600	12.6	10.1	430 x 1250 x 1550
-	XCM600P1	600	12.6	10.1	430 x 1250 x 1550
XCM800C1	-	800	16.9	13.4	550 x 1250 x 1550
-	XCM800P3	800	16.9	13.4	550 x 1250 x 1550
XCM900C1	-	900	19.6	15.6	700 x 1250 x 1550
-	XCM900P3	900	19.6	15.6	700 x 1250 x 1550
XCM1000C1	-	1000	21.7	17.3	830 x 1250 x 1550
-	XCM1000P3	1000	21.7	17.3	830 x 1250 x 1550
XCM1200C1	-	1200	25.3	20.1	830 x 1250 x 1550
-	XCM1200P3	1200	25.3	20.1	830 x 1250 x 1550

\*Rated at Standard Conditions of Summer 38odb/40%RH. Winter 3odb/68%RH

\*Subject to change



# ROTARY WHEEL ERV

## EXTERNAL MOUNT RW ERV, REM 500-8000

The REM series is the ultimate in High Efficiency Heat Recovery utilizing a rotary heat exchanger to recover the energy from the exhaust air and transfer it to the incoming fresh air. **With efficiencies up to 87%**, this unit configuration suits external rooftop or plant room applications and includes energy saving EC Plug Fans, in-built bag filters and an option of enthalpy or sensible rotary heat wheels. With the low resistance through the media, economy bypass is effected through stopping the rotary heat wheel.

**Standard capacity available from 300 l/sec to 8,000 l/sec.**

### TO SUIT ANY APPLICATION WHERE LARGE VOLUMES OF FRESH AIR ARE REQUIRED SUCH AS:

- Commercial venues, sporting complexes & gymnasiums
- Public utility buildings, Police, Ambulance, Nursing homes
- Education facilities

### OPTIONS INCLUDE:

- Enthalpy or Sensible Media
- Hot and Chilled Water Coils
- Economy Cycle
- Various Control Options





MODEL	NOMINAL CAPACITY (I/SEC)	ENERGY RECOVERED (COOLING) KW*	ENERGY RECOVERED (HEATING) KW*	DIMENSIONS (MM) H x W x L
REM500	300 - 500	7.4	12.4	1200 x 1100 x 1800
REM900	600 - 900	13.6	23.6	1700 x 1400 x 2300
REM1200	1000 - 1200	18.4	31.0	1700 x 1700 x 2300
REM1700	1500 - 1700	26.0	43.8	2000 x 1900 x 2800
REM2000	1800 - 2000	26.0	43.8	2000 x 1900 x 2800
REM2500	2000 - 2500	38.9	65.5	2200 x 2200 x 2800
REM3500	3000 - 3500	53.6	90.0	2500 x 2400 x 2800
REM4000	4000	68.7	115.3	2700 x 2700 x 2800
REM5000	5000	77.3	130.1	3000 x 2900 x 2800
REM6000	6000	107.3	180.0	2500 x 4600 x 2800
REM7000	7000	107.3	180.0	2500 x 4600 x 2800
REM8000	8000	137.3	230.7	2700 x 5200 x 2800

\*Rated at Standard Conditions of Summer 38odb/40%RH. Winter 3odb/68%RH

\*Subject to change

## CHILLED/HOT WATER COILS RW ERV, REC 500-8000

The REC combines a rotary heat exchanger with inbuilt chilled water and/or hot water coils to condition the air following the heat Recovery process. With efficiencies up to 87%, this unit configuration suits external rooftop or plant room applications and includes energy saving EC Plug Fans, in-built bag filters and an option of enthalpy or sensible rotary heat wheels. With the low resistance through the media, economy bypass is effected through stopping the rotary heat wheel.

**Standard capacities available from 300 I/sec to 8,000 I/sec.**

## SWIMMING POOL RW ERV, RES 500-8000

The RES series is tailored solution for the requirement to provide full fresh to indoor swimming pool areas. Designed with the specific need to overcome condensation and the corrosive nature of the chlorine laden air, the RES unit is the ultimate in High Efficiency Heat Recovery utilizing a rotary heat exchanger, EC Plug Fans, in-built bag filters and a sensible heat exchange media with the cabinet and components lined with a corrosion resistant coating. The unit configuration suits external rooftop or plant room applications.

**Standard capacities available from 500 I/sec to 8,000 I/sec.**



PACKAGED AC UNIT ERV,  
XEP 300-8000



# XCHANGE ERV

## PACKAGED AC UNIT ERV, XEP 300-8000

The XEP combines the efficiency of heat exchange integrated with a packaged air conditioning system to provide a total solution to temperature control for applications that require substantial or full fresh air. The unit configuration suits external rooftop or ground level applications and include energy saving EC Plug Fans, in-built filters and the option of enthalpy or sensible heat exchange media.

**With standard capacities from 300 l/sec to 8,000 l/sec.**

### THERE ARE UNITS READILY AVAILABLE TO SUIT APPLICATIONS SUCH AS:

- Commercial public activity venues, sporting complexes and gymnasiums
- Public utility buildings, Police, Ambulance stations
- Nursing homes, Child care, Education
- Large occupancy buildings and retail showrooms
- Professional suites

### OPTIONS INCLUDE:

- Enthalpy or Sensible Media
- Hot and Chilled Water Coils
- Economy Cycle
- Various control options

MODEL	NOMINAL CAPACITY (L/SEC)	ENERGY RECOVERED (COOLING) KW*	ENERGY RECOVERED (HEATING) KW*	HEATING COOLING CAPACITY	DIMENSIONS (MM) H x W x L
XEP500	300 - 500	10.1	10.6	7 - 12	1400 x 1700 x 1650
XEP900	600 - 900	16.6	17.3	13 - 20	1750 x 1300 x 1900
XEP1200	1000 - 1200	22.5	23.5	22 - 27	1750 x 1700 x 1900
XEP1700	1500 - 1700	33.8	35.3	29 - 38	2000 x 2100 x 2350
XEP2000	1800 - 2000	40.2	41.9	40 - 46	2000 x 2600 x 2350
XEP2500	2000 - 2500	48.5	50.6	49 - 56	2000 x 2600 x 2350
XEP3000	2500 - 3000	58.2	60.7	60 - 66	2000 x 3000 x 2350
XEP4000	4000	75.9	79.2	80 - 88	2300 x 3400 x 2350
XEP5000	5000	93.6	97.6	100 - 111	2300 x 3800 x 2350
XEP6000	6000	113.0	117.9	122 - 133	2300 x 4600 x 2350
XEP7000	7000	132.5	138.0	144 - 155	2300 x 5400 x 2350
XEP8000	8000	151.9	158.4	166 - 178	2300 x 6200 x 2350

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\*Subject to change

## SWIMMING POOL ERV, XES 300-8000

The XES series is a packaged airconditioning system with energy recovery that is particularly suited for applications where there is the requirement to provide full fresh to indoor swimming pool areas. Designed with the specific need to overcome condensation and the corrosive nature of the chlorine laden air, the XES PAC unit includes EC Plug Fans, in-built filters and polypropylene plate heat exchange media. The cabinet and components are lined with a corrosion resistant coating. The unit configuration suits external rooftop or plant room applications. An optional economy system is easily accommodated by increasing the width of the unit to allow bypass for both fresh and exhaust air.

**Standard capacities range from 500 l/sec to 8,000 l/sec with cooling capacity up to 160kw. Equipment can be specifically designed for larger applications up to 18,000 l/sec.**

## PACKAGED AIRCONDITIONING EQUIPMENT ACP RANGE

The ACP series are purpose-built packaged air conditioning systems providing the solution to applications where standard air-conditioning equipment is not suitable. Equipment can be mounted externally on a rooftop or at ground level and includes all components needed for a self-contained cooling and/or heating system. This allows engineers the flexibility to design adaptive solutions to unique specification requirements and to include specialist components, particular coil design, inclusion of energy recovery for applications such as humidity control and dual/fail safe system requirements



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