



## THE EHP-W PASSIVE HEAT PIPE FOR FRESH AIR APPLICATION

utilizing heat pipe heat exchangers

**with no cross contamination**

hospitals  
laboratories  
medical buildings  
manufacturing  
clean rooms  
data rooms

The EHP-W Series of energy recovery heat pipes are passive, compact, and highly efficient heat transfer devices. They are used to recover energy from exhaust air to pre-cool or pre-heat outside air in comfort or process applications.

# TECHNICAL SPECIFICATIONS



## HEATPIPE INCLUDING ECO PACK

Model No.	HPU-20	HPU-25	HPU-35	HPU-40	HPU-50	HPU-65	HPU-80
Power supply	380V / 3Ph / 50Hz						
Total Capacity	19.2	22.9	30.1	37.7	46	59.7	74.6
Sensible Capacity	19.2	22.9	30.1	37.7	46	59.7	74.6
Supply Air Temperature	23.4°C / 18.4°C						
Temperature Effectiveness	64.6	64.6	64.5	64.9	64.8	64.4	63.2
Flow Rate	2100	2500	3300	4100	5000	6500	8000
Fan	1	1	1	1	1	1	1
ESP	250	250	250	250	250	250	250
Fan Noise Level	75	76	87	90	92	93	93
Flow Rate	1890	2250	2970	3700	4500	5900	7500
Fan	1	1	1	1	1	1	1
ESP	100	100	100	100	100	100	100
Fan Noise Level	74	74	90	87	90	90	90
Unit Dimensions	1933 x 1100 x 1850	1933 x 1100 x 2100	2100 x 1736 x 2200	2200 x 1736 x 2675	2200 x 2100 x 2675	2725 x 3200 x 2200	2725 x 3200 x 2500

## HEATPIPE EXCLUDING ECO PACK

Model No.	HPU-20	HPU-25	HPU-35	HPU-40	HPU-50	HPU-65	HPU-80
Power supply	380V / 3Ph / 50Hz						
Total Capacity	12	14	20	22	27	36	44
Sensible Capacity	12	14	20	22	27	36	44
Supply Air Temperature	23.4°C / 18.4°C						
Temperature Effectiveness	64.6	64.6	64.5	64.9	64.8	64.4	63.2
Flow Rate	2100	2500	3300	4100	5000	6500	8000
Fan	1	1	1	1	1	1	1
ESP	250	250	250	250	250	250	250
Fan Noise Level	75	76	87	90	92	93	93
Flow Rate	1890	2250	2970	3700	4500	5900	7500
Fan	1	1	1	1	1	1	1
ESP	100	100	100	100	100	100	100
Fan Noise Level	74	74	90	87	90	90	90
Unit Dimensions	1933 x 1100 x 1850	1933 x 1100 x 2100	2100 x 1736 x 2200	2200 x 1736 x 2675	2200 x 2100 x 2675	2725 x 3200 x 2200	2725 x 3200 x 2500

### Please Note :

The above capacities are based on: Fresh Air Entering : 33°C / 21°C, Return Air 23.0/15.7 and Altitude 1700 masl.  
Eco Aire (Pty)Ltd Reserves the right to change any data on this sheet due to technical development without prior notice



# The EHP-W Series

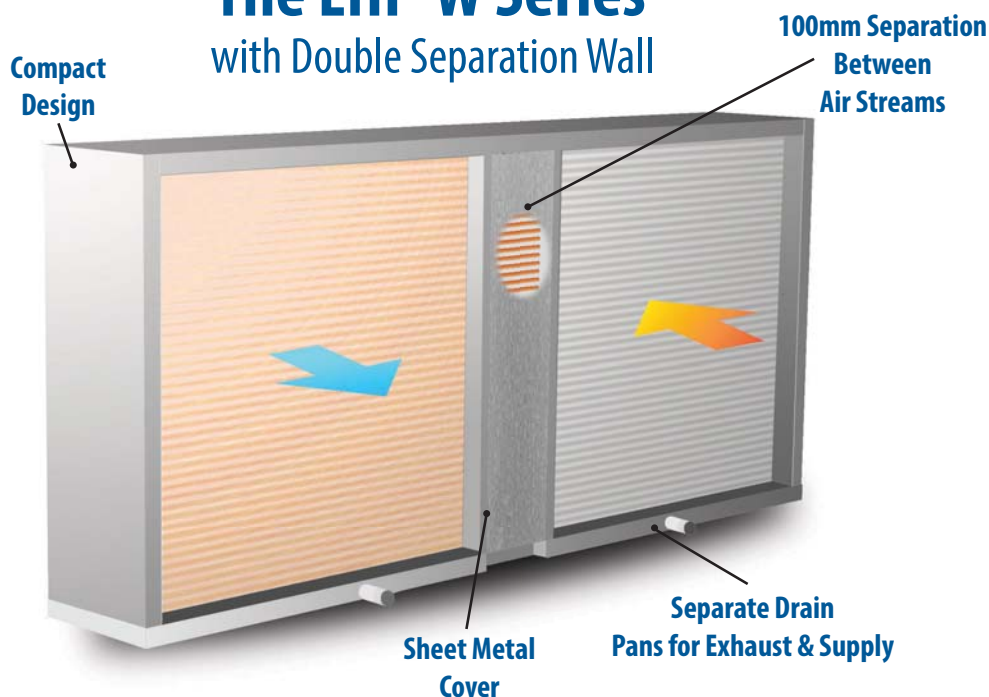
## Utilizing Passive Heat Pipe Heat Exchangers

State of the art heat exchangers based on the **Heat Loop** are opening doors to new applications with low air pressure drop, compact design, high effectiveness, and trouble-free static installation.

The **Heat Loop** is a breakthrough in multi-row heat pipe design, where the “pumping” of the working fluid is achieved not only by the differences of temperature between the two air systems, but also by the temperature differential between rows in the same air stream. The **Heat Loop** can transfer more mass of working fluid while using the same tubing diameter resulting in higher heat transfer capacities

## The No Cross Contamination Solution...

### The EHP-W Series with Double Separation Wall

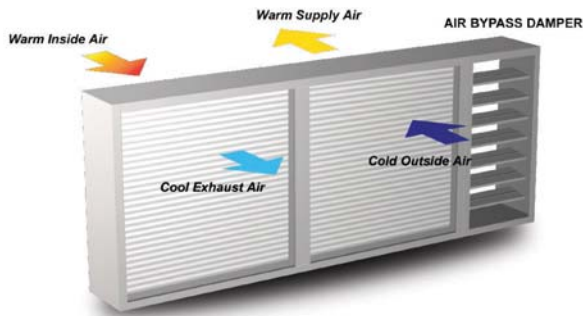


- No moving parts...years of uninterrupted energy savings
- Made with high quality copper tubes for reliability and longevity
- Separate liquid and vapour lines for maximum heat transfer effectiveness
- No tilting or mechanical seasonal changeover necessary
- Solid partition between air streams for no cross contamination
- Most compact design



## Winter Heat Recovery Using Air Bypass for Defrost:

- ✓ Defrost mode in very cold climates
- ✓ Precise temperature delivery control
- ✓ Energy savings



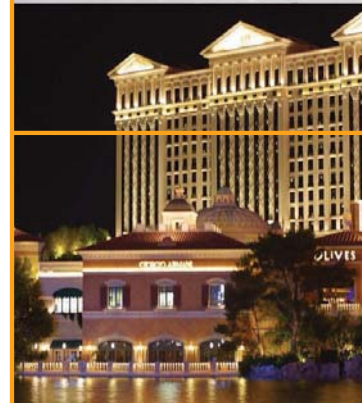
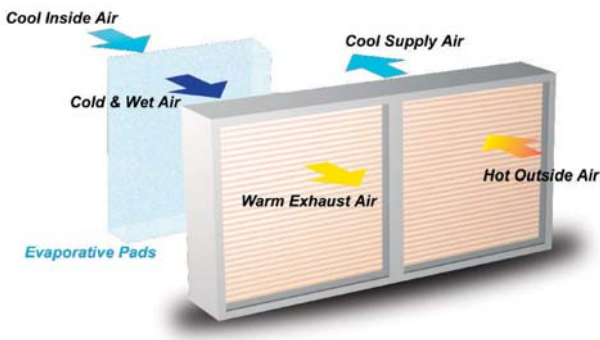
## For Moderate Seasons:

- ✓ Economizer mode... avoids unnecessary static pressure loss
- ✓ Temperature control
- ✓ IAQ improvement

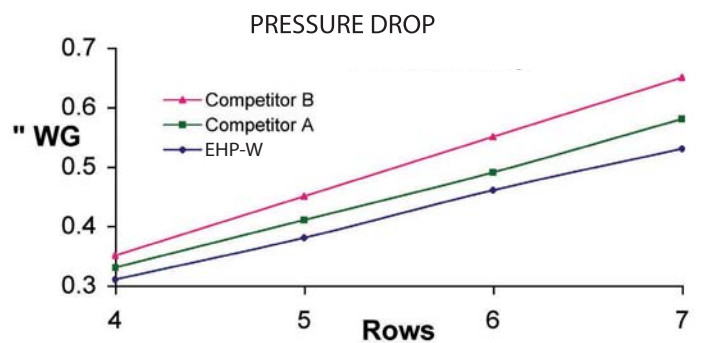
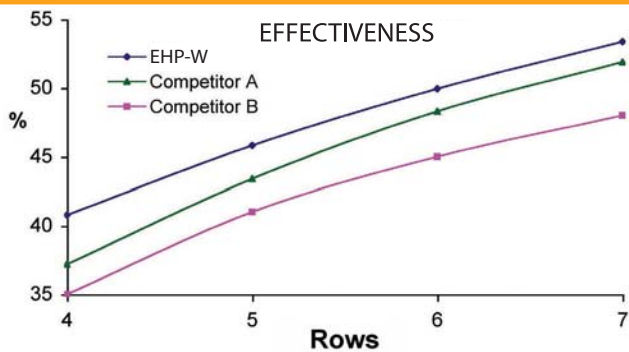


## Summer Cooling Recovery:

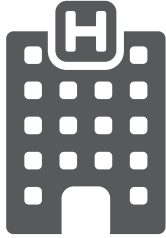
- ✓ Markedly enhanced performance with direct and indirect evaporative cooling
- ✓ Energy savings



## The EHP-W SERIES vs. THE COMPETITION



# Eco Aire has an air conditioning unit to suit any industry from Residential to Industrial. What ever the need may be.



**HOTELS &  
ENTERTAINMENT**



**PUBLIC  
BUILDINGS**



**SHOPPING  
CENTRES**



**EDUCATIONAL**



**HOSPITALS**



**SPECIAL  
PHARMACEUTICAL  
SITES**



Eco Aire (Pty) Ltd.

JHB

CAPE TOWN

GARDEN ROUTE

KZN

PORT ELIZABETH

[www.ecoaire.com](http://www.ecoaire.com)

**t:** 011 397 2162 / **e:** [sales@ecoaire.com](mailto:sales@ecoaire.com)

**t:** 079 522 0724 / **e:** [bradley@ecoaire.com](mailto:bradley@ecoaire.com)

**t:** 072 533 6747 / **e:** [heine@ecoaire.com](mailto:heine@ecoaire.com)

**t:** 031 701 6114 / **e:** [rowland@ecoairekzn.co.za](mailto:rowland@ecoairekzn.co.za)

**t:** 083 625 0462 / **e:** [simon@solencosa.co.za](mailto:simon@solencosa.co.za)