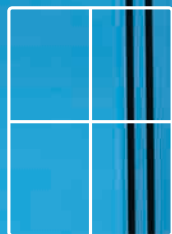


»» **Next big challenge as an industry is the focus on low-carbon objectives, building sustainability, and changing climate change.**

*Pat Hanson, Founding Partner of gh3\* Architects, Toronto  
North Eastern Garage, Edmonton – CAN, 72 Accubloc 1,250,000 m<sup>3</sup>/h (735,000 CFM)*



# ACCUBLOC

REGENERATIVE ENERGY RECOVERY

**polybloc**  
SWITZERLAND

Munich airport – DE, 20 Accubloc, 460,000 m<sup>3</sup>/h (270,000 CFM)



### EFFICIENCY FOR BIG AIR VOLUMES IN

office buildings, universities,  
shopping centers, airports,  
industrial halls

# ACCUBLOC

## GOOD FOR THE (ECO) BALANCE

Our actions today are the foundation of tomorrow's world. In times of climate change, this means realigning our ways of thinking and living. Especially for the air-conditioning of buildings.

Polybloc has been building a better world since the 1980s. With regenerative heat exchangers that conserve resources. Since 2001, a completely new generation has been used here: the Accubloc®. Its ingenious design now achieves efficiencies of up to 90 %!

This is made possible by an innovative damper system. Instead of allowing the heat accumulators to rotate, the air currents are redirected. Periodically, one heat bank is charged while the other is discharged. And vice versa. This saves energy, ensures maximum efficiency and protects the environment!

KELAG Klagenfurt – AT, 31,000 m<sup>3</sup>/h (18,000 CFM)



Certified by:



Lucerne University of  
Applied Sciences and Arts

HOCHSCHULE  
LUZERN

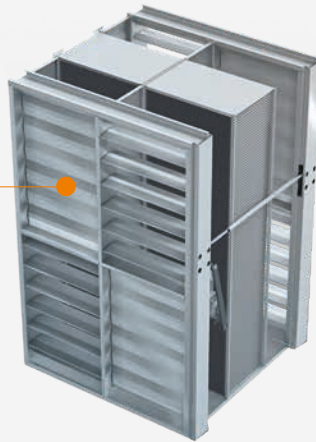
Parameter	Value	Unit	Comment
Temperature (T1)	12	°C	Indoor
Temperature (T2)	20	°C	Outdoor
Relative Humidity (RH1)	50	%	Indoor
Relative Humidity (RH2)	70	%	Outdoor
Wind Speed (V)	1.5	m/s	Outdoor
Pressure (P)	1013	hPa	Indoor
Pressure (P2)	1013	hPa	Outdoor
Altitude	500	m	Indoor
Altitude (P2)	500	m	Outdoor
Relative Humidity (RH1)	50	%	Indoor
Relative Humidity (RH2)	70	%	Outdoor
Wind Speed (V)	1.5	m/s	Outdoor
Pressure (P)	1013	hPa	Indoor
Pressure (P2)	1013	hPa	Outdoor
Altitude	500	m	Indoor
Altitude (P2)	500	m	Outdoor

### CERTIFIED PLANNING TOOL

Winpoly calculates how efficiently all Polybloc products interact in use under a wide variety of conditions. And can be easily integrated into any Air handling unit software.

### EASY INSTALLATION

Flexible dimensions also for parallel air flows



### SAVES ENERGY AND SPACE

Static instead of rotating heat bank

## THE ACCUBLOC BENEFITS AT A GLANCE



### HIGHEST EFFICIENCY

Maximum energy savings and environmental relief with efficiencies of up to 90 %. No reheater is necessary.



### FROST RESISTANCE

Due to the transfer of moisture to the supply air, freezing is hardly possible even at very cold temperatures.



### EASY INSTALLATION

Dimensions exactly to the size of the air handling unit, no excess width. Removable storage according to VDI 6022.



### OFFICIALLY CERTIFIED

Neutral performance measurement according to EN 308 by HSLU Lucerne and certified by TÜV Süd.



### INTEGRATED CONTROL

Modulated by 0 – 10 V signal.



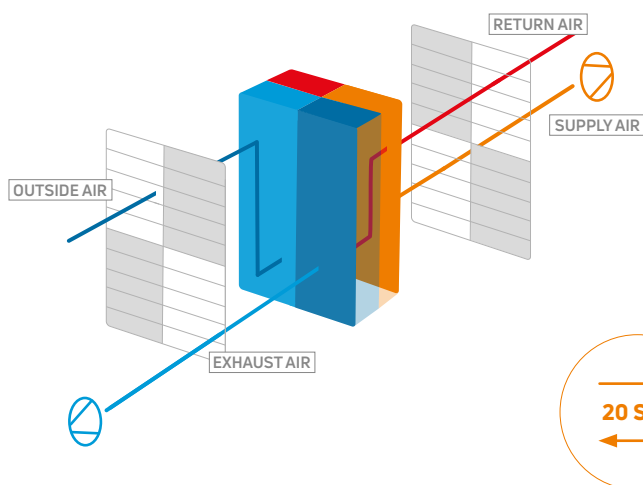
### AIR HUMIDIFICATION

The optional sorption coating transfers moisture into the supply air and thus ensures a comfortable climate in all rooms.



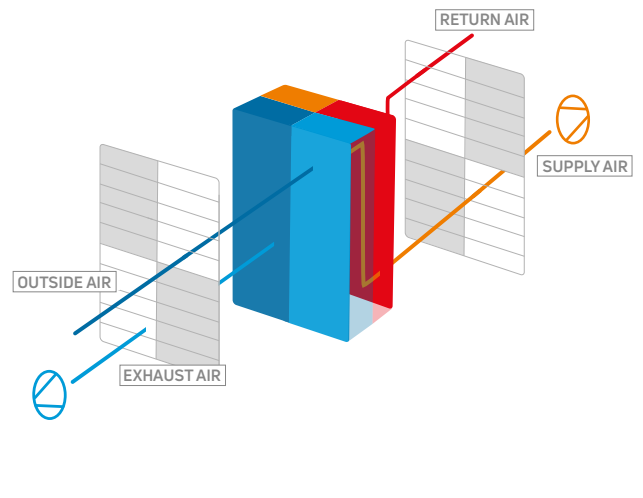
### LITTLE CROSS CONTAMINATION

Very fast changeover for low exhaust air transfer.



### FUNCTIONAL PRINCIPLE

The front storage bank is heated by the exhaust air, the rear bank conveys heat inside and cools down by the outside air.



After 20 seconds, the air flow is deflected. The previously heated storage banks are now cooled down.

# WE ARE POLYBLOC.

**THE FUTURE  
OF ENERGY RECOVERY.  
SINCE 1982.**

More than three decades ago, we began shaping the future.  
By launching energy recovery systems that achieve more.  
More efficiency. More quality. More profitability.

We have continuously developed this approach. Today, Polybloc heat exchangers are used all over the world. Individually manufactured for all requirements. At the highest technical level.

In this way we bring ecology and economy together.  
A wise investment for the future.



**Peter Müller**  
*Managing Partner*