

PrimAir[®]

Comfortable indoor environment



Compact aggregate
Maximum efficiency



SHORT DESCRIPTION

Airflows between 0,3 - 30 m³/s
High efficiency fans and heat exchangers.
Low internal pressure drop.
Highly flexible aggregate combinations.
Complete Control systems.
Computerized design programs.

AIR HANDLING UNIT DESIGN

All components in the cover are manufactured in aluzink coated sheet metal. The cover is coated inside and outside and functional components like fans, damper and filter units are galvanized or made of aluzink and no further coated. Screws, bolts and other joint components are from corrosion resistant material. Sealing lists are made of top quality synthetic rubber.



Framework with cassettes

Roof and bottom consist of 50 mm thick cassettes with a length of 100 mm interval. The length of the cover depends of what the chosen function components requires. The cassettes are made of double metal sheets with a 50 mm thick heating insulation between. The top- and under-metal-sheets of the cassettes are made so that the outer metal sheet can be pushed onto the inner metal sheet into one unit. The cassettes are enforced with a horizontal frame profile corresponding to the covers total length. The different levels are fixed together with corner- and middle profiles were the dividing up follows the module space for the function units.

Inspection- and complementary hatches

The covers front- and backside are provided with inspection hatches. The inspection hatches are possible to open and are provided with hinges and turnable handles. They are made by inside- and outside metal sheet with 50 mm insulation between. The outer metal sheet is profiled for increased stability. When the hatch is closed it is pressed against a sealing list of d-type, assembled on the framework. The air handling units are assembled with double hatches to make the handling more convenient. The hatches has adapted hinges assembled on the framework. Complementary hatches are permanent hatches where it is not necessary to reach equipment that is behind, for example pipe ducts or in front of batteries or as an extra hatch.



DELIVERY FORMS OUTDOORS

In an outdoor environment the aggregates are being mounted on a frame consisting of coated sheet metal with firm eye nuts for crane assembly.

INDOORS

For the indoors environment the following delivery alternatives are available:

- In one unit
- Splitted in several modules
- Demountable, alternatively demounted and and remounted on the inspection scene.



INSPECTION HATCHES

Mounted as standard on all hinges, the back hatches are being mounted with screws in the frame. Locks are standard with firm handles.

COMPONENTS

FANS

There are several types of fans available. Standard is belt driven radial fans of ABB-Fläkt brand. All approved by AMCA.



FILTERS

The filters are of the brand Camfil (EU3-EU9). The filters are made for air handling in climatized environments and of high efficiency made of glass fibre. The frame is manufactured of galvanized steel metal sheet, thickness 25 mm.

DAMPERS

The jalousie damper EKO-J is an adjustable and shut down damper to be used in air handling plants. Sealing class type 3. The damper consists of a couple of contra wise turning vanes that are flexible mounted in a metal sheet frame.



HEAT EXCHANGERS

Rotary heat exchanger.
Plate heat exchanger.
Liquid-coupled heat exchanger.

VENTILATION COILS

Coiltech brand. The coils consist of copper tubes and aluminium fins. The casing is made of hot galvanized sheet steel and the drain tray, if specified, is made of stainless steel.

ALT. PERFORMANCE

Washable hygienic units in non-corrosive performances.
Flexible unit layout.
Colour adaption.

CONTROL SYSTEMS

All air handling units are available with a complete control system. Device Cabinets (Bravida brand) are designed to control HVAC (Heat-Ventilation-AirCondition) applications. Normally we use some kind of Controller that is specially designed for small HVAC applications like the Siemens RWI65.

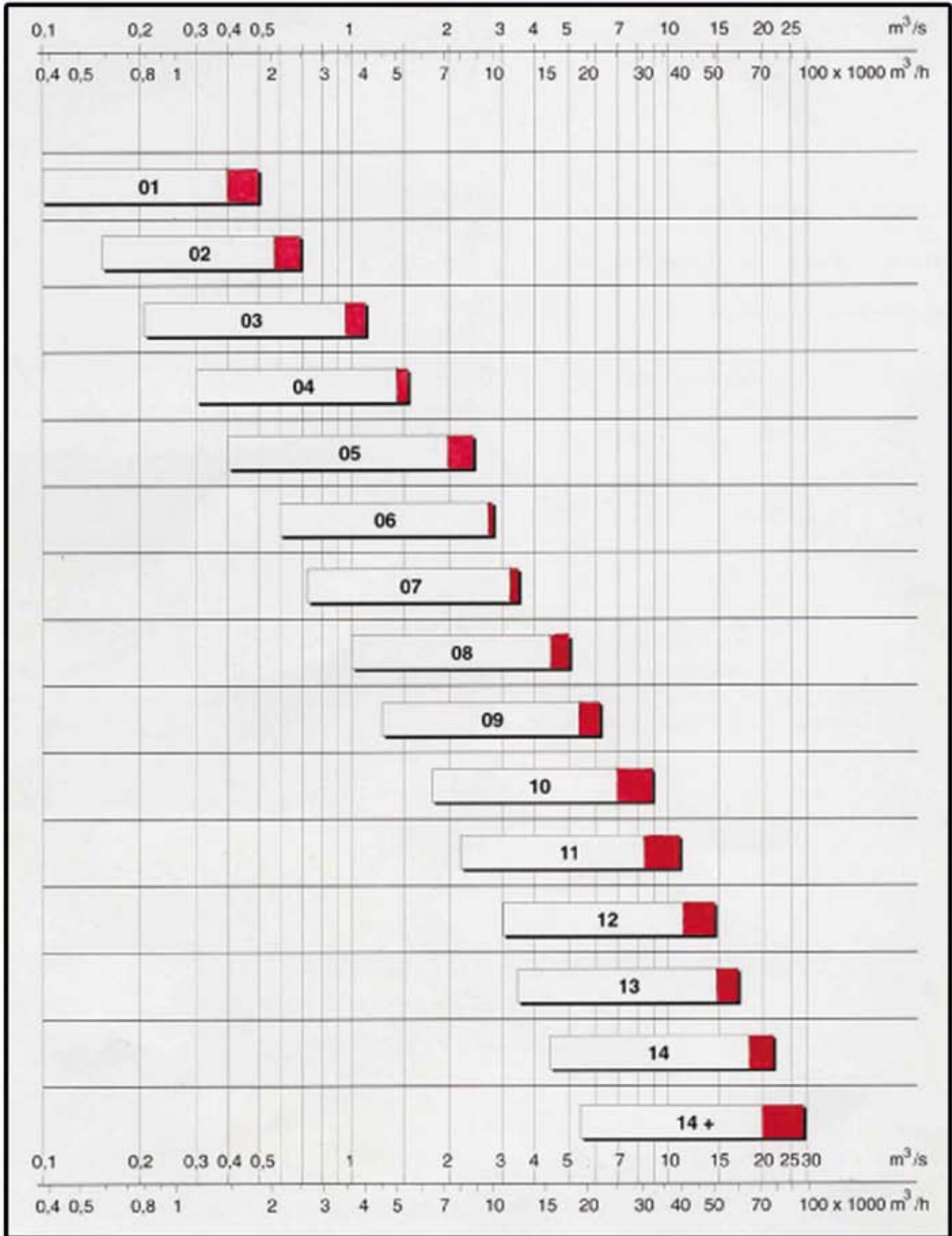
SHUNT VALVE GROUPS

Shunt is made for the following types of control circuits:
- constant flow in primary and secondary circuit
- variable flow in primary and constant flow in secondary circuit



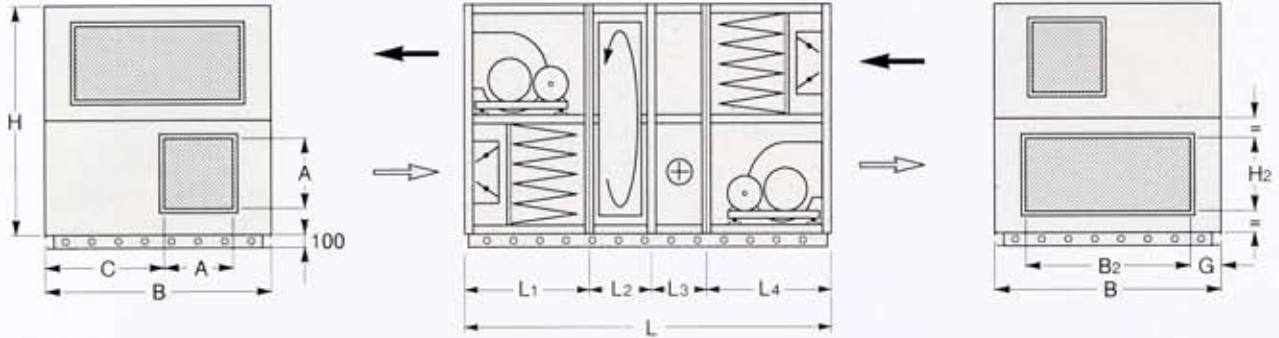
**That which is SPECIAL AGGREGATES
for other suppliers is STANDARD FOR US!**

CAPACITY OVERVIEW

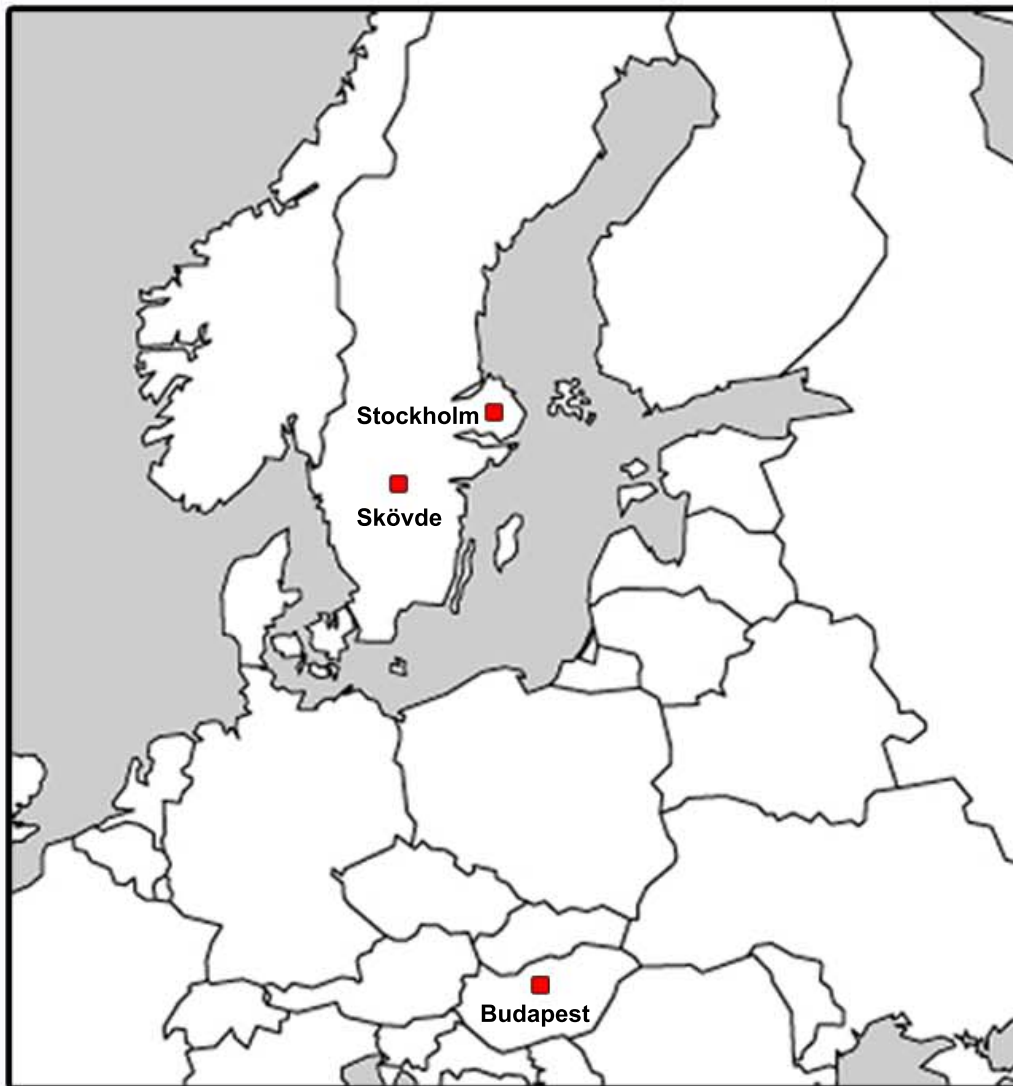


Note: Aggregate with cooling battery only available in capacity area

PRR Rotary heat exchanger



SIZE	B	H	L	L ₁	L ₂	L ₃	L ₄	A	C	B ₂	H ₂	G	WT.
1	728	810	2700	1000	500	200	1000	182	375	450	200	139	430
2	928	1010	2700	1000	500	200	1000	229	475	600	300	164	580
3	1028	1210	2700	1000	500	200	1000	322	535	800	300	114	680
4	1228	1460	2700	1000	500	200	1000	404	535	800	400	214	770
5	1428	1610	2700	1000	500	200	1000	453	605	1000	500	214	890
6	1628	1760	2700	1000	500	200	1000	507	605	1200	500	214	1010
7	1728	2010	2800	1000	500	200	1100	569	745	1200	600	264	1230
8	2028	2160	3000	1100	500	200	1200	638	745	1600	600	214	1430
9	2228	2360	3200	1200	500	200	1300	715	785	1600	800	314	1760
10	2478	2610	3400	1300	500	200	1400	801	785	2000	800	239	2020
11	2728	2910	3700	1400	500	200	1600	898	845	2400	1000	164	2410
12	3128	3260	4000	1600	500	200	1700	1007	845	2600	1200	264	2761
13	3428	3610	4300	1700	500	200	1900	1130	1125	3000	1200	214	2980
14	3728	3760	4500	1900	500	200	1900	1267	1190	3000	1400	364	3144



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