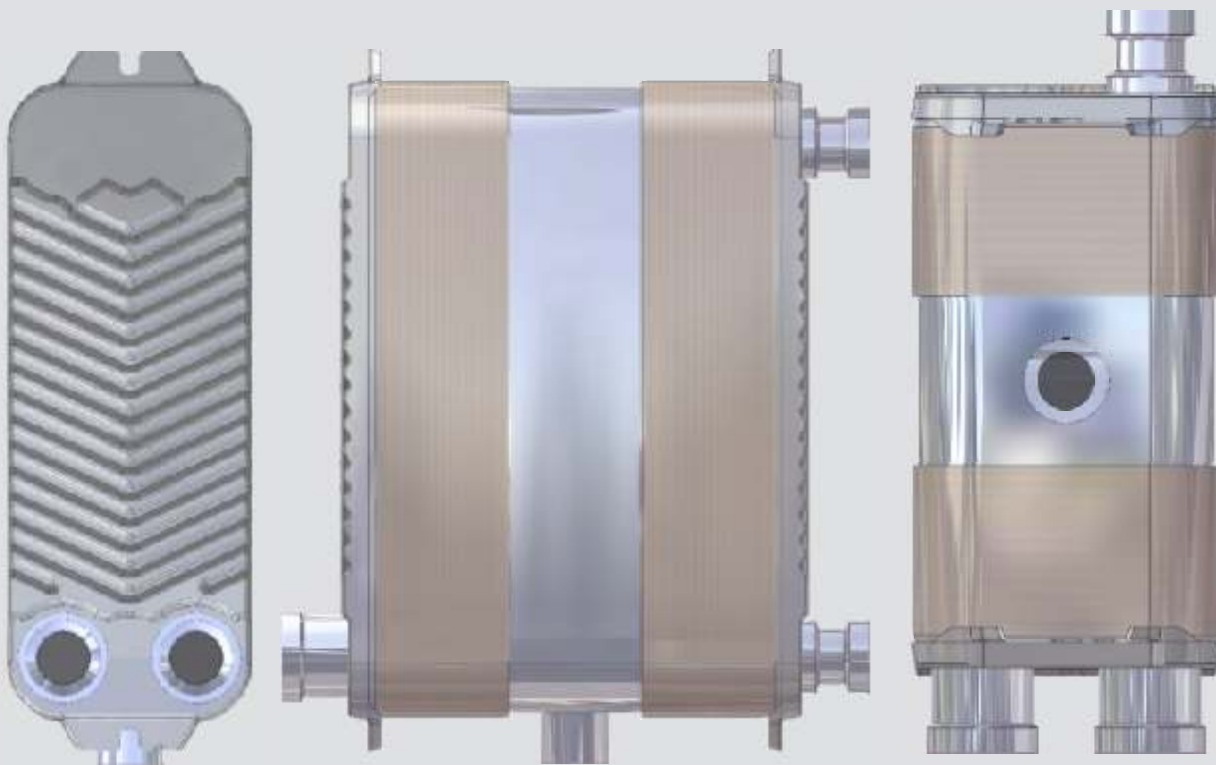
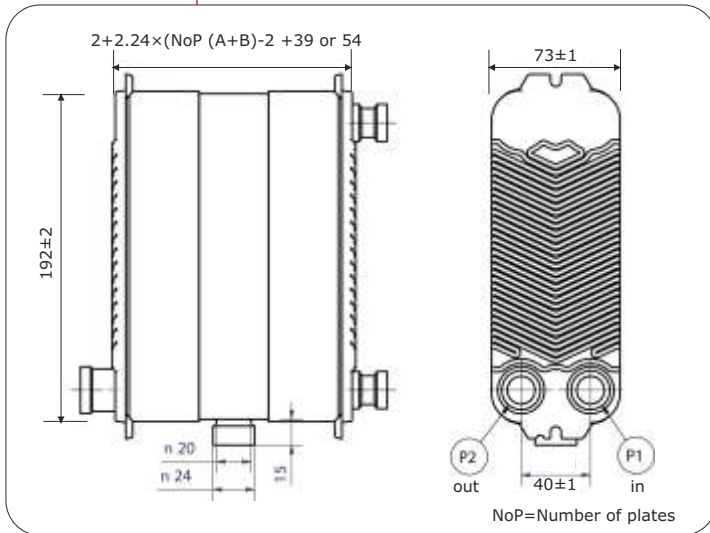


ADWIS | 35, 50, 60, 80, 100



SWEP's ADWIS series combines two CBEs (a refrigerated heat exchanger and a recovery unit) sandwiching an integrated separator in a modular design. ADWIS models 35, 50, 60, 80 and 100 are suitable for applications of 15-100 Nm³/h, yet have a very compact envelope of only 189 x 72 x 185 (max) mm. Other advantages of this cost-effective solution include stable high performance, convenient drainage and simple insulation.

ADWIS 35, 50, 60, 80, 100



Airdryer design specification:

The design specification is set to correspond with the thermal specification of airdryer sizes 5 and 12 with an integrated separator.

Design specification:

R134a $t_0 = 0^\circ\text{C}$ (32°F). Air $t_{\text{dew}} = 3^\circ\text{C}$, $dp = 20 \text{ kPa}$ $t_{\text{in/out}} = 8\text{-}10 \text{ K}$

Maximum working pressure:

16 bar on air circuit.
16 bar on ref circuit.

Static pressure strength:

According to PED with correspondence to stated working pressure.

Channel plate measurement:

189 x 70 mm

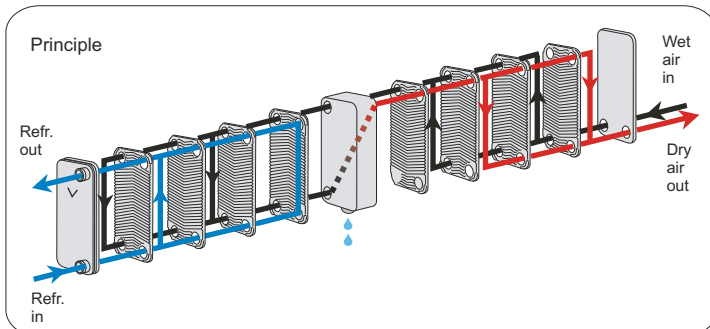
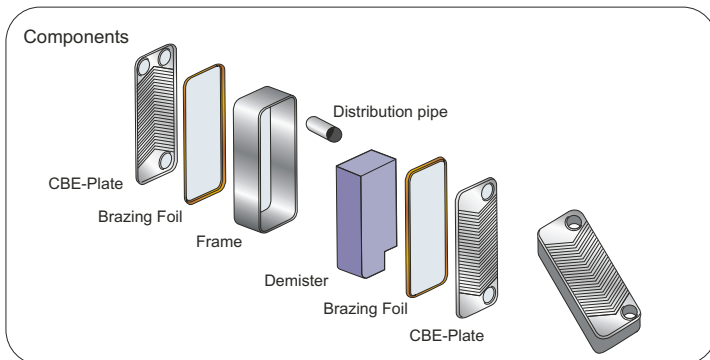
Material specification:

CBE parts in stainless steel

- Channel plates, Cover plates, Start/End plates, Connections

Separator:

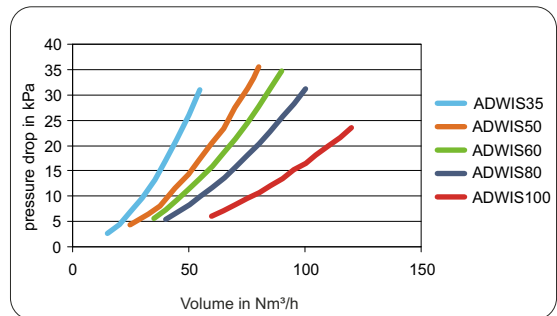
- Frame, Support pins, Cover plates, Thread extender, Demister



Range	Volume in Nm ³ /h*	SCFM
ADWIS 35	15 – 35	– 20
ADWIS 50	35 – 50	20 – 30
ADWIS 60	50 – 60	30 – 35
ADWIS 80	60 – 80	35 – 50
ADWIS 100	80 – 100	50 – 60

* Design data: 8 bar (abs), $t_{\text{dew}} = 3^\circ\text{C}$, $dp = 20 \text{ kPa}$ $t_{\text{in-out}} = 8\text{-}10 \text{ K}$

Size (Nm ³ /h)	NoP A	NoP B	Separator (external width) (mm)	Separator (internal width) (mm)	Total PP measurement (mm)
35	8	12	39	35	81.3
50	10	18	39	35	99.2
60	12	20	39	35	108.2
80	16	22	39	35	121.6
100	24	36	54	50	185.9



Port	Connection size
Refr. inlet	10 mm
Refr. outlet	10 mm
Air inlet	¾" Int or 22U
Air outlet	¾" Int or 22U

Drainage:

½" Int

Max connection outer diameters:

The connections are limited in max outer diameter due to the port layout on the channel plate.

Demister:

wire- ϕ 0,30 mm, free volume approx. 98.5%,
specific surface approx. 203m²/m³
package density 120 kg/m³

Efficiency rate:

5 μ = 93% 10 μ =99.9%

Max number of plates:

60 plates when 50mm separator is used

Standard connection height:

20 mm

Maximum size welding bolts:

Fixation with integrated frontplate.



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