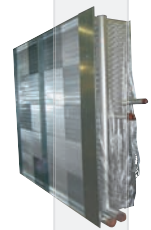
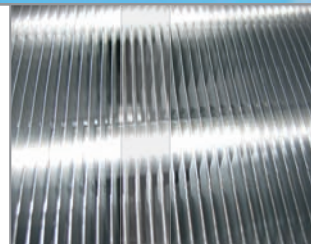
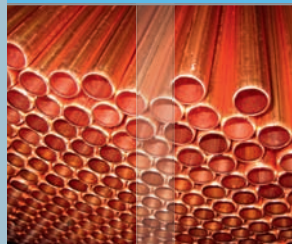




## FIN HEAT EXCHANGERS



### Custom-Made Heat Supply



- Heat exchangers designed according to the wishes of the client
- Quality
- Logistics connections
- Flexibility
- Production since 1970

## Project-related heat exchangers produced in series-production quality

Hidria IMP Klima has committed itself to quality. All steps from development to production are carried out according to the international standard ISO 9001:2008. It is our duty and a guarantee to you that we constantly improve our process quality from supply to delivery.

## We produce heat exchangers since 1970

Hidria IMP Klima possesses longtime international experience in producing heat exchangers for air conditioners and air ducts, with or without attached axial fan. We are experts in the field of project-related heat exchangers with short and reliable delivery dates.

## Application

Fin heat exchangers are used in the field of air conditioning and industrial production for air heating or cooling and for air dehumidification by means of several heat media. They can be installed in air conditioners or air ducts.

The maximum operating temperature is 160°C. The following media are used: water, mixture of water/antifreezes, cooling agents, oil, steam.

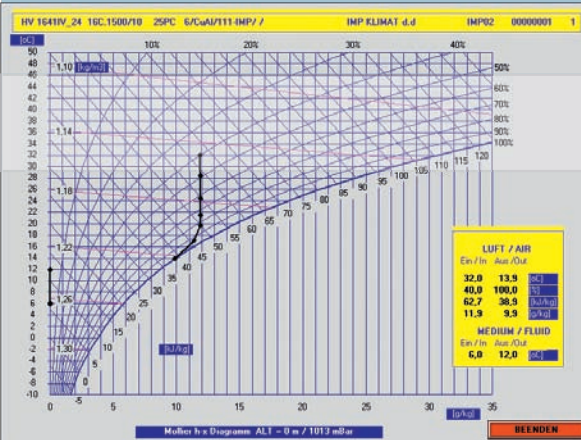
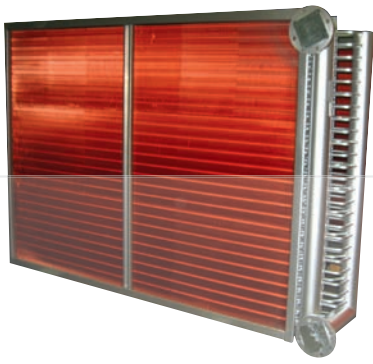
## Readiness for customisation, innovation, cooperation

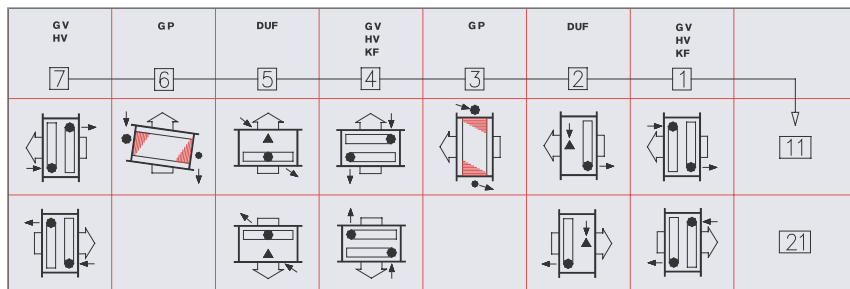
Each customer request is a challenge for us. This means that we pick the best of all possible solutions that modern computer equipment and production machines offer. The selection programme for the thermodynamic calculation of heat exchangers, the 3D construction programme, the CNC sheet metal punching and cutting edge machines, the high-quality materials and our well-qualified, motivated employees are the fundamentals on which we build. Our sales philosophy is satisfied clients. Their wishes are not a secret: kept promises, short delivery dates and attractive prices.

## Notation

Notation	GV	12	I	V	28	21	C.	640	/	3	10	PC	6	/	Cu	Al	/	721
No	1	2	3	4	5	6	7	8	9	10	11	12	13					

No	Notation	Notation and meaning
1	GV	Type of heat exchanger according to heat medium GV water heater HV water cooler GP steam heater DUF Direct expansion coil KF Condenser
2	12	Core barrel diameter: 12 Cu tube Ø 12 16 Cu tube Ø 16
3	I	Tube system: I offset V aligned
4	V	Form of lamellas: V undulated fin R unruffled fin
5	28	Distance between fins (mm x 10) 16-60
6	21	Tube layers
7	640	Finned length (mm)
8	3	Number of tube rows (in the direction of air stream)
9	10	Cycles (number of allocations) P
10	6	Tubes per cycle (pass number) C
11	Cu	Tube material Cu
12	Al	Fin material Al-aluminium Ale-epoxy coated aluminium Cu-copper
13	721	Installation position:
	7	Heat exchanger group (according to type and position)
	2	Direction of air stream (1=left, 2=right)
	1	Connection position (1=on the same side, 2=on the opposite side)





### Installation position

### Standard Version

The standard heat exchangers consist of aluminium fins, which are attached to the copper tubes by mechanical enlargement of the tubes and casing of galvanized sheet steel and steel manifolds. The manifolds and soldered joints are corrosion-resistant by means of temperature-resistant paint.

### Selection of Materials

#### Tubes:

- Copper
- Thickness: 0.4 - 1.0mm

#### Fins:

- Aluminium
  - Epoxy coated aluminium
  - Copper
- Thickness: 0.11- 0.2mm

#### Frames:

- Galvanized sheet steel
- Stainless sheet steel
- Aluminium
- Copper

#### Manifolds:

- Steel
  - Copper
- Nominal size 20 - 100mm

#### Additional possibilities:

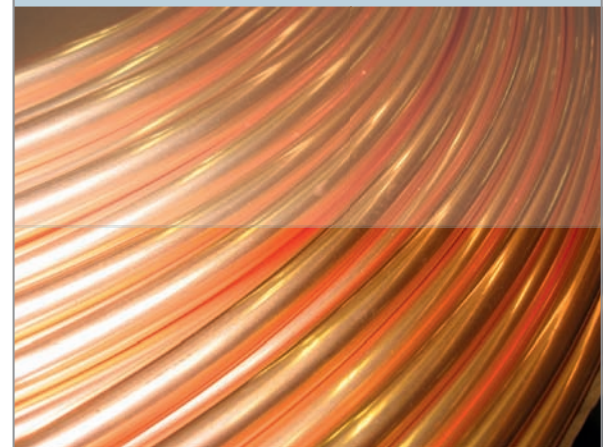
- Powder varnishing of the heat exchanger frame
- Cooler and vaporizer with mist eliminator and/or condensate pan

#### Dimensions

Distance between fins: 1.6 - 6.0mm  
 Finned length: 200 - 6100mm  
 Finned height: 240 - 2700mm

#### Selection of Types:

12 I	16 I	16 V	16 T
tube Cu Ø 12	tube Ø 16	tube Ø 16	tube Ø 16
offset	offset	aligned	aligned
system	system	system	system
33,3 x 28,8	60 x 30	30 x 30	50 x 42



**LUFTKUEHLER -OPT.Reserve**

Typenschlüssel		Vojkova 58	
HV 1241IV_25 29C.1500/4 29PC 4/CuAl111/MP/1		1001 Ljubljana SLOVENIA	
Firma 1	Projekt	00000001	
zuHd	Datum	08.07.21	
Fax	Seite	1	
e-mail	Bearbeiter		
Position	Telefon		
Referenz	Fax		
	e-mail		
<b>LUFT</b>			
Luftvolumen	Seehöhe	0 m	Luftdruck
12000 m <sup>3</sup> /h	Massenstrom	14447 kg/h	1013 mbar
3.33 m <sup>3</sup> /s	Geschwindigkeit	2.30 m/s	Bezugstemperatur
			20.00 °C
Eintritt - trocken	Austritt - trocken	18.0 °C	Dichte
40 %	Austritt - rel. Feuchte	74 %	1.204 kg/m <sup>3</sup>
Eintritt - Enthalpie	Austritt - Enthalpie	42.38 kJ/kg	
Eintritt - abs. Feuchte	Austritt - abs. Feuchte	9.58 g/kg	Druckabfall trocken
81.45 kW	Reserve-Leistung	14 %	58 Pa
			Druckabfall feucht
			78 Pa
			1.44
<b>MEDIUM</b>			
	Wasser	100.00 %	Erstarrungspunkt
			0 °C
Medium - Eintritt	Mediummenge	0.00 m <sup>3</sup> /h	Dichte
12.00 °C	Geschwindigkeit	0.00 m/s	1001 kg/m <sup>3</sup>
			Wärmekapazität
			4.1832 kJ/kgK
			Viskosität
			1.3451 mPa·s
			Wärmeleitfähigkeit
			0.5757 W/mK
Druckabfall	Kondensat	33.63 l/h	

1 Fe	40	40	11	21
2 Cu			1	
3 Fe			4	
4 Ms			7	
5 F				
6 F				
7 G				
8 P				
9 P				

Gewicht	79.00 kg	LAMELLE	Aluminium - 0.12
Fläche	128.42 m <sup>2</sup>	ROHR Kupfer	12x0.4
Inhalt	24.39 t	RAHMEN	Stahl verzinkt - 1.5
		SAMMLER	Stahl
			Entwässerung / Entleerung - R 1/4

ANTRITZ	1 Sk	1	2 0/0	ZOLL	2 0/0	ZOLL
AUSTRITZ	1 Sk	1	2 0/0	ZOLL	2 0/0	ZOLL

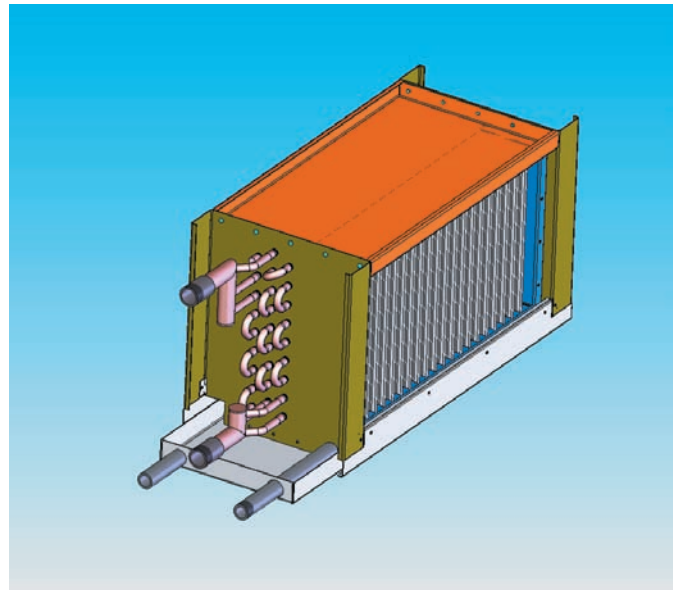
Bei Varianten Messabweichungen beachten:	
1	1 Stk. Wärmetauscher
2	
3	
4	
5	
6	
7	
8	
9	

Kurs	€/€	1,00000	79,00 kg	€	0,00
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Preisstellung	Lieferzeit	4 Wochen
Rabatt	Angebotsgültigkeit	30 Tage



Our products/commodities comply with the requirements of European directives for machinery, low voltage and electromagnetic compatibility.

We manufacture our products/commodities according to ISO 9001:2008, thus guaranteeing the quality of development, construction, production and sale.

We possess the valid GOST certificate for all types of products/commodities which are intended for the Russian market.



**Hidria**

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