

35 years
experience

 **atm**
Coil & Tube Technologies

Cleaning Free Condensers Tube Forming Coil Heat Exchangers Condensing Units



www.atm-tr.com

Your Solution Partner in Cooling and Heating



Coil Heat Exchangers

- ⇒ Al-Cu Condensers
- ⇒ Al-Cu Evaporators



WOT Condensers

- ⇒ WOT Static Condensers
- ⇒ Compact Condensers
- ⇒ Low Maintenance ATM Condensers

PRODUCTS

Tube Forming

- ⇒ Tubular Parts
- ⇒ Capillary Heat Exchangers
- ⇒ Air Conditioner Copper Pipe Kits
- ⇒ Air Conditioners Tubes
- ⇒ Auxiliary Refrigeration Tubes
- ⇒ Domestic Boiler Tubes
- ⇒ Drier Machine Tubes

Cooling Units

- ⇒ Low Maintenance Split Condensing Units
- ⇒ Evaporator Units





ATM COIL HEAT EXCHANGERS



- Refrigeration Coils
- Static Evaporators
- Water and Steam Coils
- Convector Coils
- A/C Coils
- Mobile A/C & Refrigeration

Our copper tube/aluminum fin heat exchangers are used in a wide range of applications to transfer heat between air and fluid (refrigerant, water-glycol, or oil). Tailored to specific end-product requirements, these coils set the standard for cost-effective heat-transfer.

Our application engineers can work with you to optimize your system to meet your cost and performance expectations.



Capabilities:

Fin Materials

- Aluminium
- Blue Hydrophilic Coated Aluminium
- Gold Epoxy Coated Aluminium
- Copper Fins

Tubes

Copper alloy, aluminium
(Plain, inner grooved)

Coating (Electrostatic Powder Coating and Cataophoresis Coating options)

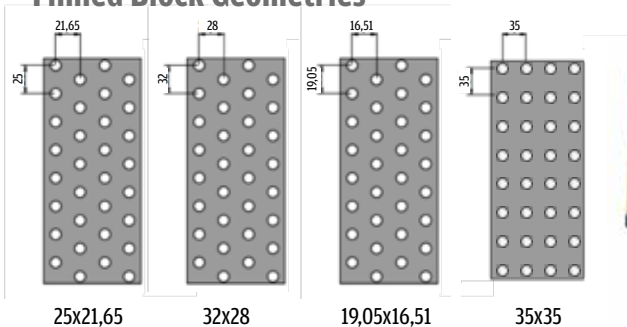


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Finned Block Geometries



Fin Pattern No	Tube matrix/Tube pitch	Tube Diameter (OD)	Fin shape	Fin spacing
				mm
1	25x21,65 / Staggered	5 mm	Flat/Corrugated	1.4 ... 5.0
2	25x21,65 / Staggered	7 mm	Flat/Corrugated	1.4 ... 6.0
3	25x21,65 / Staggered	5/16" (7.94 mm)	Flat/Corrugated	1.4 ... 6.0
4	25x21,65 / Staggered	3/8" (9.52 mm)	Flat/Corrugated	1.4 ... 6.0
5	19,05x16,5 / Staggered	5 mm	Flat/Corrugated	1.4 ... 5.0
6	19,05x16,5 / Staggered	7 mm	Flat/Corrugated	1.4 ... 6.0
7	32x28 / Staggered	3/8" (9.52 mm)	Flat/Corrugated	1.8 ... 6.0
8	32x28 / Staggered	1/2" (12.7 mm)	Flat/Corrugated	1.8 ... 6.0
9	35 x 35 / Aligned	7 mm	Corrugated	4.0 ... 12.0
10	35 x 35 / Aligned	3/8" (9,52 mm)	Corrugated	4.0 ... 12.0



ATM CONDENSERS

Low Maintenance Condensers



Made according to Customer requirements.

We can give engineering support for alternative solutions.

**NO MORE
MAINTENANCE
COSTS**



■ Improved Heat transfer Performance

Provides a higher capacity with the same frontal area of Battery Condensers

■ Always first day parameters !

ATM condensers keep the factory specifications from first day to last day.
The gaps between wires are not blocked in time like fins.

■ Using with Natural Refrigerants !

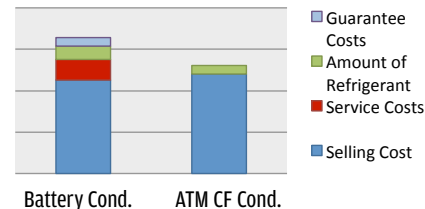
High burst resistance up to 300 bar.
Compatible with CO2 and R290.

■ Low Guarantee Costs !

Blocked condensers cause failure of working parts, fin condensers are the root cause of guarantee costs.

■ Big Cost Saving at the Total Cost !

Total Cost=Refrigerant Usage + Service Cost + Guarantee Cost



■ Energy Saving !

Energy consumption is according to producer specifications and do not increase parallel to particle collection on condensers.

ATM CONDENSERS

Maintenance &
Cleaning Free

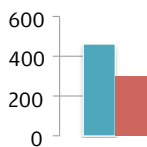


■ Less Refrigerant Charge !

ATM Condensers use about 30 - 70 % less refrigerant for the same heat transfer .

Reduce the environmental impact of refrigerants.

Compliance with regulations, compatible with R290.



Savings on Refrigerant

■ Low Servicing Costs !

No need for a periodic service to clean the condensers, almost no service cost, huge savings.

■ Solution for Product Differentiation !

A better and a different cooler, trouble free for the end user.

■ Environment Friendly

Less Refrigerant Usage

Lower Energy Consumption in time

Comparison of Most Widely Used Heat Exchangers of the Same Capacity

A. Wire On Tube ATM Low Maintenance Condensers "Patented" **B.** Copper Tube Alu fin Coil Condensers **C.** Microchannel Condensers

Condenser Type	Capacity Energy Kw	First day efficiency	Guarantee & Service Costs	Price for performance	Internal Volume	Air Side Pressure Drop	Internal Pressure Drop	Size	Burst Pressure resistance	Need for cleaning Service	Cost of Motor
WOT ATM Low Maintenance	Same	Best	Best	Best	Medium	Best	Medium	Medium	Best	Best	Best
Cu/Alu Coil Condensers	Same	Medium	Medium	Medium	Worst	Medium	Best	Worst	Medium	Medium	Medium
Microchannel Condensers	same	Worst	Worst	Worst	Best	Worst	Worst	Best	Worst	Worst	Worst

ATM Low Maintenance

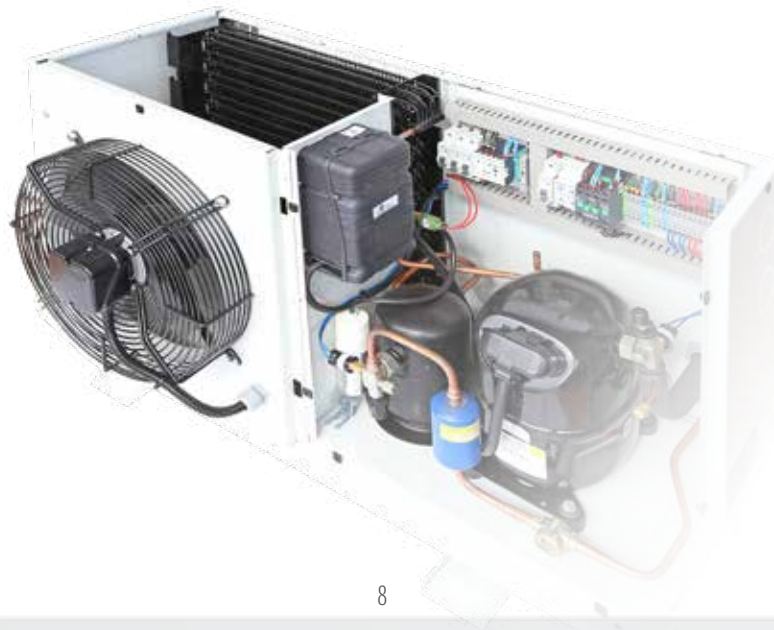
CONDENSING UNITS



Made according to Customer requirements.

We can give engineering support for alternative solutions.

For Condensing and Cooling Units please refer to our ATM Low Maintenance Condensing Units Catalogue



ATM Low Maintenance COOLING UNITS



■ No Fouling, No Service Cost !

ATM Low Maintenance Condensers are used in ATM Cooling Units. There is no Fouling, Blockage of Condenser Problem at ATM Cooling and Condensing Units.

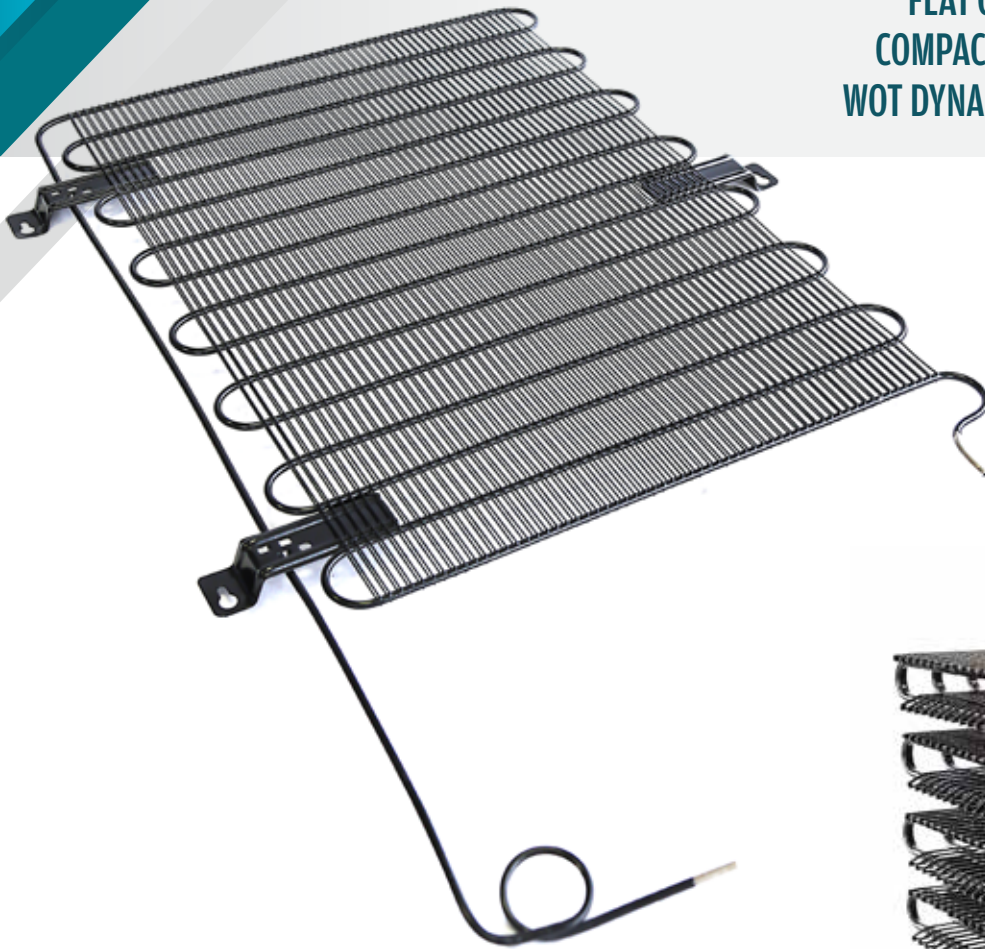
■ Always First Day Efficiency !

Fouling, Blockage of Condenser problems are not faced at ATM Cooling Units in time due to environment conditions. ATM Cooling Units do not loose its first day efficiency in time. There are big savings on Maintenance costs, Energy and Guarantee Costs at ATM Cooling Units.

- For further Technical information refer to our Condensing Unit Catalogue.
- For Cooling Room construction refer to our Cooling Room Catalogue.

WIRE ON TUBE CONDENSERS

FLAT CONDENSERS
COMPACT CONDENSERS
WOT DYNAMIC CONDENSERS



WIRE ON TUBE CONDENSERS

Made according to Customer requirements.

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TUBE FABRICATION AND TUBE BENDING

TUBE FORMING
AIR CONDITIONER CONNECTING KITS
HEAT EXCHANGERS
CU-ALU TUBES EUTECTIC BRAZING

AIR CONDITIONERS TUBES
AUXILIARY REFRIGERATION TUBES
DOMESTIC BOILER TUBES
DRIER MACHINE TUBES



TUBE FABRICATION AND TUBE BENDING

Our advance Tube Engineering provides our customers high quality tube bending and fabrication services.



- CNC Tube bending
- Tube Cutting
- Tube End Forming
- Welding and Brazing
- CNC Machining
- Leakage Test



Custom Manufacturing for Cooling Units, Boilers and Appliance Products.



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ATM COIL DESIGNER



You can reach our softwares through our web page

Software Description

- COILDESIGNER is an advanced performance calculation software for finned tube type heat exchangers used in HVAC, cooling and process applications.

- COILDESIGNER is the ideal software solution for heat exchanger manufacturers and dealers. As a web based software, it provides easy, quick and reliable performance calculations.

Basic Features And Functions

COILDESIGNER has the basic features and functions as follows:

- Design of water, water-glycol heating and cooling coils, air-cooled condensers and DX heat exchangers
 - Calculation with different geometries, fin pitch, number of pipes, rows and other exchanger variables
 - Customizable data library
 - Multi-language support
 - SI, IP units
 - User registration and authorization
 - Admin panel
 - Detailed print page
 - Simple and easy to use software interface
 - Web-based architecture
 - Smartphone and tablet compatibility
- ATM Cooling Units do not loose its first day efficiency in time. There are big savings on Maintenance costs, Energy and Guarantee Costs at ATM Cooling Units.

COOLING COIL DATA		PERFORMANCE DATA		AIR SIDE DATA	
Geometry	2021.05-7 CO	Heat Transfer Area	5.40 m ²	Volume Flow	2000 m ³ /h
Tube Material/Type	Copper	Tube Volume	0.47 l	Pressure Drop	1000 Pa
Fin Material	Aluminum	Capacity	1700.00 W/K	Mass Flow	2000.00 kg/h
Fin Pitch	4.00 mm	Sensible Heat	1700.00 W	Air Velocity	0.00 m/s
No. of Tubes / Row	12 / 3	Latent Heat	0.00 W	Dry Bulb Temp	20.00 °C
Number of Rows	3	Sensible Heat Ratio	1.00	Wet Bulb Temp	12.00 °C
No. of Coils	3	Heat Transfer Coef.	47.00 W/m ² ·K	ΔT _{air} (Wet - Dry)	8.00 °C
No. of Passes	3	Log. Temperature Diff.	8.15 °C		
Finned Length	800 mm	ΔT _{air} (Sensible)	1.00 °C	FLUID SIDE DATA	
Finned Ht / W	200.00 / 40.00 mm	ΔT _{air} (Total)	0.00 °C	Fluid Inlet Temp	12.00 °C
Identified Wg. Heavy	Steel	Air Side Fouling Fc	0.00 m ² ·K/W	Volume Flow	0.000 m ³ /h
Identified Ser/Conn	1 / 1	Liquid Side Fouling Fc	0.00 m ² ·K/W	Mass Flow	0.000 kg/h
Ø Dia	21.2 (3/4") mm			Fluid Viscosity	0.00 mPa·s
Ø Dia	21.2 (3/4") mm			ΔP _{fl}	0.00 Pa
Weight	kg				
Service Size	mm				

ABOUT US

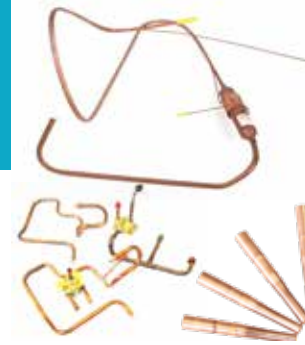
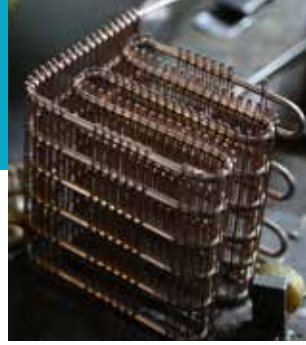
Since 1987

We started the production of parts to the Appliance Industry as "ATIMAK Machinery Industry Ltd." in 1986. We are serving the industry with innovative solutions by combining our thirty years of experience and knowledge in cooling cycle components and advanced Welding and Tube Forming machine production.

Our company's main working principle is to follow the developing technologies and finding the new solutions to meet the increasing demands of our customers for a better environment.

- Two Factories in Gebze (6500 m²) and Manisa (3500 m²),
- In house production capability of Full Automatic Vertical Condenser Welding Machines, CNC tube bending and Forming Machines.
- High knowledge of Cooling Cycle,
- Cooperation with universities, use of governmental supports,
- Patented products in the field of condensers and evaporators
- Innovative Products, like Low Maintenance ATM Condensers, ATM Condensing Units and ATM Cooling Units.

ATM exports more than half of its production to companies in 4 different Continents.



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35 years
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29.01.2020