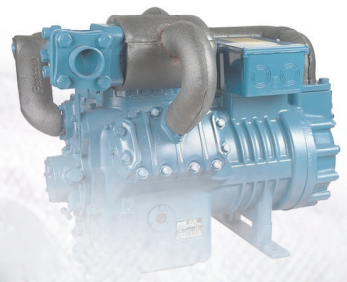




Technical Catalog

**Shock Freezer
ICU-TS**



shock freezer

shock freezing CONDENSING UNIT

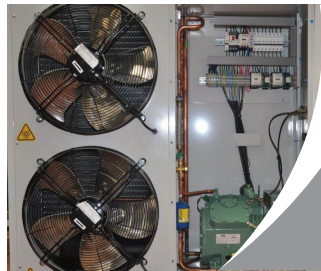
shock freezer split



ICU-HM/HL

Hermetic Split System for small and medium size cold rooms, low noise condensing unit and evaporator with accessories installed, supplied without piping. Thermostatic expansion valve, remote control panel. Suitable for outdoor use.

Cooling Capacity:
 MT = from 1103 W to 13100 W (-5 °C / +45 °C)
 LT = from 753 W to 3550 W (-30 °C / +45 °C)



ICU-SM/SL

Semi-Hermetic Split System for small and medium size cold rooms, low noise condensing unit and evaporator with accessories installed, supplied without piping. Thermostatic expansion valve, remote control panel. Suitable for outdoor use.

Cooling Capacity:
 MT = from 1960 W to 35530 W (-5 °C / +45 °C)
 LT = from 840 W to 17995 W (-30 °C / +45 °C)



ICU-CM/CL

Scroll Split System for small and medium size cold rooms, low noise condensing unit and evaporator with accessories installed, supplied without piping. Thermostatic expansion valve, remote control panel. Suitable for outdoor use.

Cooling Capacity:
 MT = from 4040 W to 26300 W (-5 °C / +45 °C)
 LT = from 2250 W to 12200 W (-30 °C / +45 °C)



ICU-TS

Shock Cooling Split System for small and medium size cold rooms, low noise condensing unit and evaporator with accessories installed, supplied without piping. Thermostatic expansion valve, remote control panel. Suitable for outdoor use.

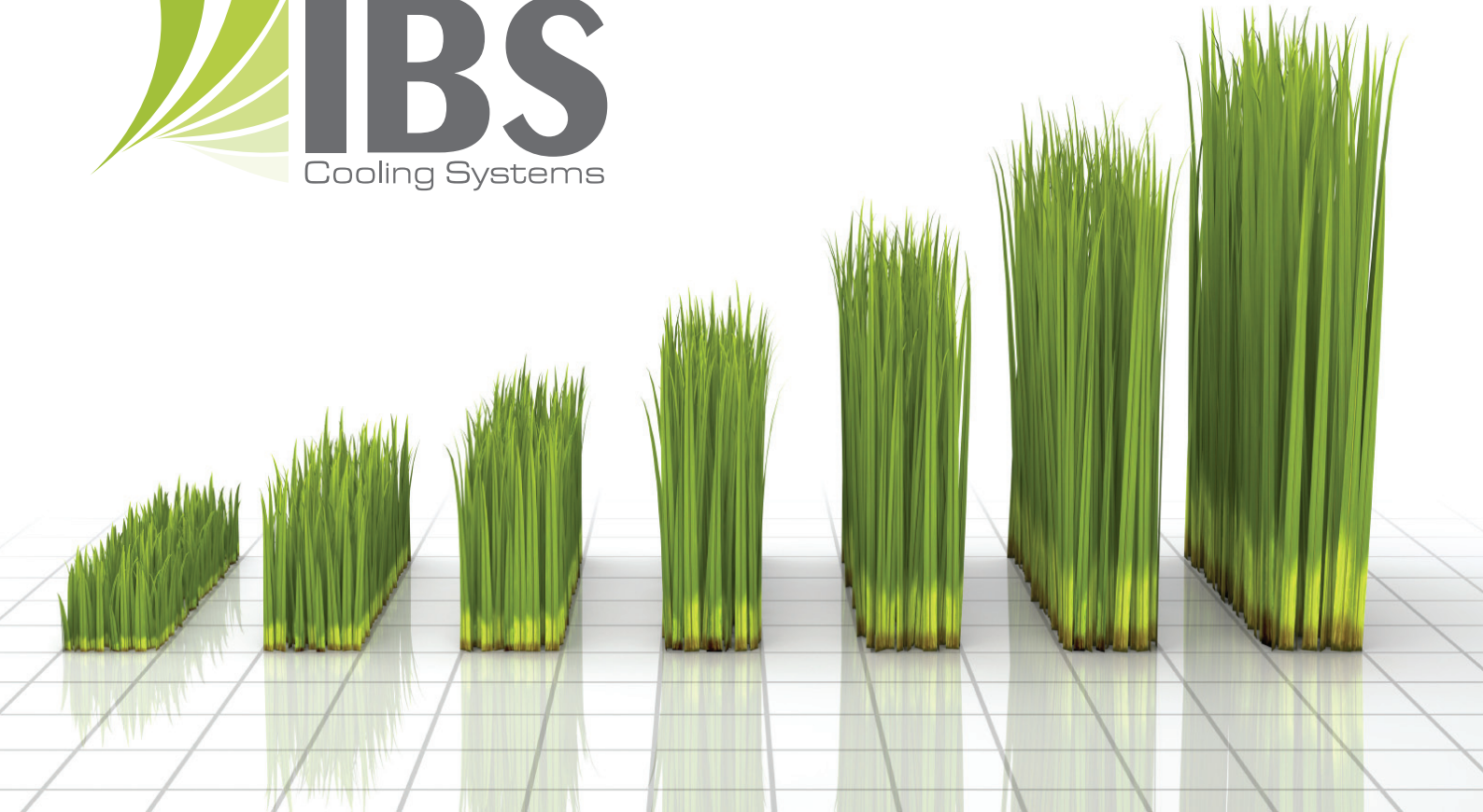
Cooling Capacity:
 LT = from 5970 W to 29500 W (-35 °C / +45 °C)



ICU-IM/IL

Industrial Split System for small and medium size cold rooms, low noise condensing unit and evaporator with accessories installed, supplied without piping. Thermostatic expansion valve, remote control panel. Suitable for outdoor use.

Cooling Capacity:
 MT = from 42950 W to 105560 W (-5 °C / +45 °C)
 LT = from 20090 W to 31950 W (-30 °C / +45 °C)



About IBS

IBS likes to describe itself as a business based on a distinct work ethic, love of innovation, the will to invest, and above all on an unrivaled respect for its customers and their satisfaction. These business characteristics are also shared by the companies that work with IBS, in a technical-economic network that generates products and services in the commercial refrigeration sector. The remarkable growth of IBS's supply companies, from components to service providers, should be considered the most positive and stabilizing aspect of the modern development of IBS.

IBS is the leading company in cooling and servicing in Turkey.

We produce everykind of cooling equipments in a variety of system solutions and scale in many countries in Europe.

IBS with the brand name IBS is produced by the largest producer of this type of cooling systems in Turkey. The company has all their departments (development production administration etc.) beneath one roof and they meet the ISO 9001 -2000 standards.

We also develop special systems for special projects from heatrecovery upto automisation and temporization of any kind of product.

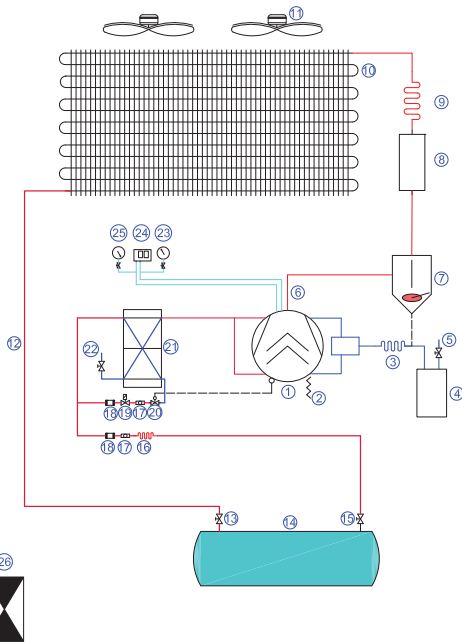
Products

We care for our customers for equipment ergonomy and for our inviorment. The future is energy and according to that point we use energy very efficient.

Our solutions includes Central Refrigeration Systems, Split Type Condensing Unit, Air Cooler, Turnkey Projects, Automation, Special Projects, 7/24 Service.



two-stage



- | | |
|--------------------------------------|------------------------------------|
| 1. Compressor | 14. Liquid Tank |
| 2. Crankcase Heater | 15. Liquid Tank Outflow Valve |
| 3. Suction Line Vibration Absorber | 16. Liquid Line Vibration Absorber |
| 4. Suction Line Accumulators | 17. Gas Flow Gauge |
| 5. Suction Line | 18. Filter |
| 6. Discharge Line | 19. Solenoid Valves |
| 7. Oil Separator | 20. Expansion Valve |
| 8. Muffler | 21. Heat Exchanger |
| 9. Discharge Line Vibration Absorber | 22. Liquid Line |
| 10. Condenser | 23. High Pressure Manometer |
| 11. Axial Fan | 24. Pressure Control |
| 12. Condenser Return Line | 25. Low Pressure Manometer |
| 13. Liquid Tank Inflow Valve | 26. Electrical Box |

Advantages

- Appropriate to standards
- High efficiency
- Top quality components
- Full cabinet unit for outside applications
- Easy assembling and mounting
- Designed for easy maintenance and mounting
- Floor or wall mount opportunities
- Wide product range
- Complete, ready to install unit
- Special models/designs are also available

Technical specifications

- Electrostatic painted, steel galvanized unit
- Voltage protection relay
- Magneto-thermal switch on three phase models
- Contactor on all model range
- Crankcase heater
- Cu/Al condenser
- Electronic fan speed control
- Liquid receiver
- Drier filter
- Gas flow gauge with humidity indicator
- Service/maintenance valve on liquid line
- LP/HP combined pressure cut-off
- Integrated electric box
- Pressure relay valve
- Acoustic insulation
- Electric isolator
- Special jacket for extra low noise on compressor
- Specially designed mounting brackets

Optional

- Electronic fan speed variator for condenser fans
- Soundproofing kit



Technical Specifications

Model	Compressor Model	Cooling Capacity W				Current Max. A	Electrical Power kW (-30°C) 400 V / 3 / 50Hz	Condanser		Connection Suction line Discharge Line	Cabin Type
		-35/+45	-35/+50	-40/+45	-40/+50			m ²	Fan		
FRASCOLD / Two Stage Semi-Hermetic Compressor / High Speed Fan											
ICU-TS 26 Z.F	S 5 26 16 Y	7740	7460	6390	6160	11,03	6,42	44	500	1"3/8	F 31
ICU-TS 27 Z.F	S 7 27 19 Y	9020	8680	7390	7100	11,61	6,05	58	500	1"3/8	F 31
ICU-TS 42 Z.F	V 10 42 29 Y	12900	10480	10760	8500	20,26	9,34	87	4x50	1"3/8	F 62
ICU-TS 60 Z.F	Z 15 60 30 Y	16770	16270	14020	13590	24,28	12,38	2x87	4x450	1"5/8	E 4
ICU-TS 72 Z.F	Z 20 72 36 Y	20290	19690	16960	16460	29,81	14,68	2x87	4x500	1"5/8	E 4
ICU-TS 84 Z.F	Z 25 84 42 Y	24030	23320	20080	19490	33,44	17,23	2x116	4x500	1"5/8	E 4
ICU-TS 102 Z.F	Z 30 102 51 Y	29500	28640	24660	23940	38,78	21,93	2x145	4x500	2"1/8	E 4
BITZER / Two Stage Semi-Hermetic Compressor / High Speed Fan											
ICU-TS 20 Z.B	S4T-5.2 Y	5970	5860	4860	4770	9,17	4,59	44	2x500	1"1/8	F 31
ICU-TS 28 Z.B	S4N-8.2 Y	8480	8310	6920	6790	12,79	6,56	58	2x500	1"1/8	F 31
ICU-TS 42 Z.B	S4G-12.2 Y	13360	13050	11070	10840	19,70	9,9	87	4x450	1"3/8	F 62
ICU-TS 63 Z.B	S6I-16.2 Y	18900	18500	15750	15430	16,94	13,96	2x87	4x450	1"5/8	E 4
ICU-TS 73 Z.B	S6H-20.2 Y	21800	21300	18180	17790	31,80	16,17	2x87	4x500	1"5/8	E 4
ICU-TS 84 Z.B	S6G-25.2 Y	24900	24300	20800	20300	36,70	18,56	2x116	4x500	1"5/8	E 4
ICU-TS 101 Z.B	S6F-30.2 Y	29500	28800	24700	24100	43,8	22,2	2x145	4x500	2"1/8	E 4

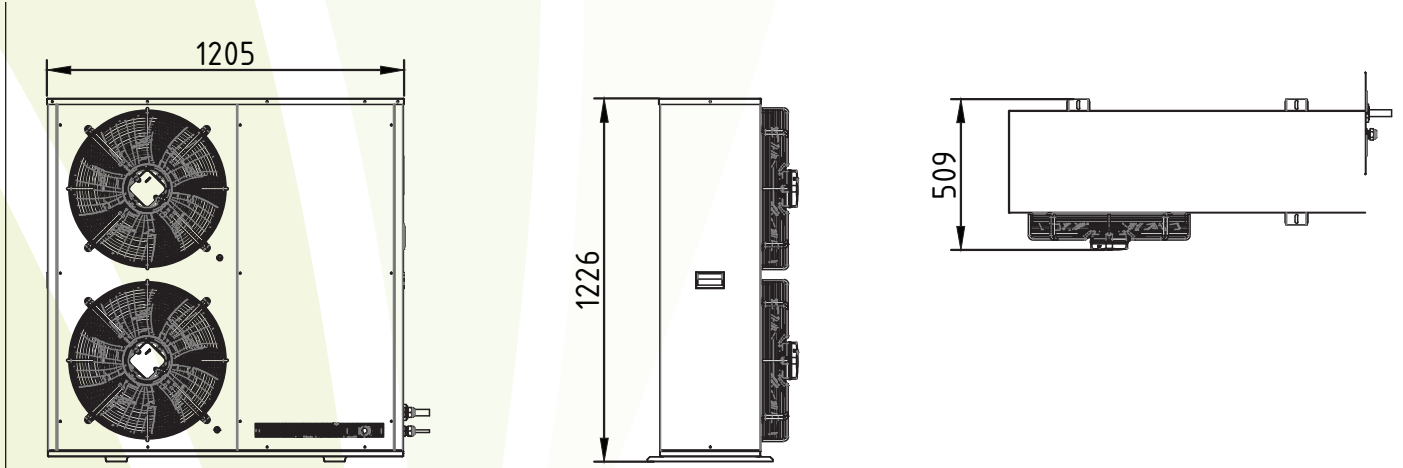
Model Designation

ICU	T	S	42	Z	F	4
1	2	3	4	5	6	7

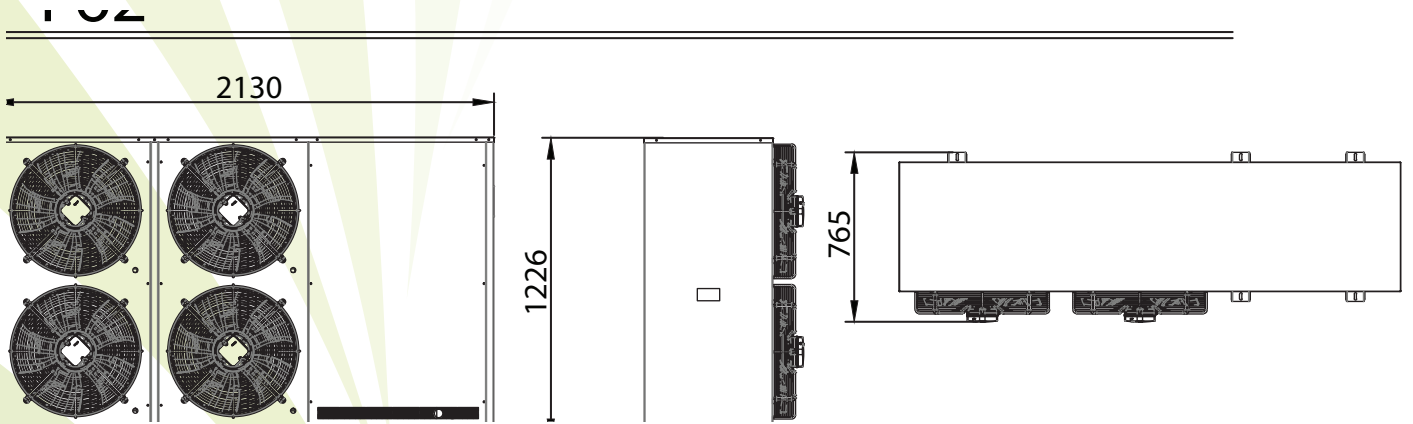
- 1** Production Serie
- 2** Compressor Make Model
H: Hermetic **C:** Scroll **S:** Semi-Hermetic
- 3** Application Temperature
M: -5/+5 °C **L:** -15 / -25 °C
- 4** Total Displacement

- 5** Refrigerant
E: R 22 **Z:** R 404 A **Y:** R 134 A
- 6** Compressor Make
B: Bitzer **F:** Frascold **T:** Tecumseh **C:** Copeland **BS:** Bristol **S:** Sanyo
- 7** Fan Speed
4: 1400 d/d **6:** 900 d/d **8:** 660 d/d **12:** 330 d/d

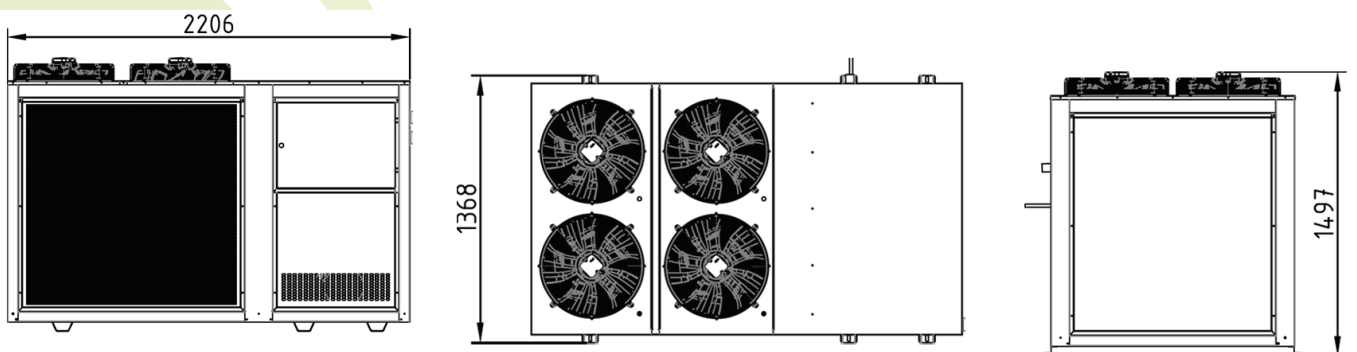
F31



F62



E4





Fan Speed Control



Combine Pressure Control



Safety Switch



Liquid Indicators Unit



Solenoid Valves



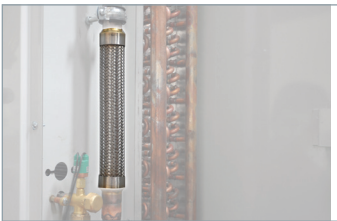
Fan



Pressure Manometer



Helical Oil Separators



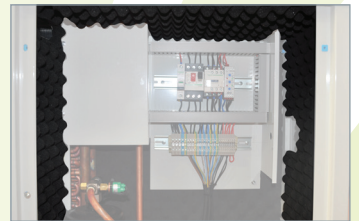
Vibration Eliminators



Vertical Liquid Receivers



Easy to Carry



Acoustic Insulation



Connection



Electrical Board



Efficient use of Condanser



Suction Line Accumulators



Easy Installation Equipment



Sound Jacket



Cabinet Unit for Outside Applications



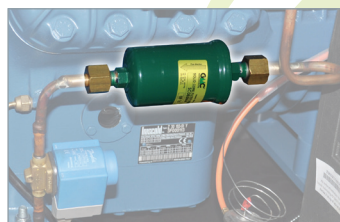
Filter Driers



Selenoid Valves



Rotolock Valves



Subcooling



Pressure Switch



IBS Isıtma Soğutma Havalandırma Taah. San. ve Tic. Ltd. Şti.

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