

HEAT INTERFACE UNITS

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### IEAT ERFACE INITS

2021 ver. 1.0

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KFS7215 KFS 721 KFS 722

#### HEAT INTERFACE UNITS

- KFS 711 INDIRECT DOMESTIC HOT WATER HIU 08
  - KFS 712 DIRECT SPACE HEATING HIU
  - KFS 713 INDIRECT SPACE HEATING HIU
- KFS721S INDIRECT DOMESTIC HOT WATER & DIRECT SPACE HEATING HIU
- KFS 721 INDIRECT DOMESTIC HOT WATER & DIRECT SPACE HEATING HIU
- KFS 722 INDIRECT DOMESTIC HOT WATER & INDIRECT SPACE HEATING HIU
- 10 12
- 14
- 16 18



#### **Our Vision**

In the light of the principles of honesty and trust, to provide human and environment-oriented products and services, to enlarge the business opportunities it has developed, and to be one of the top 5 companies in the world in the industry.

#### **Our Mission**

With its expert and dynamic team, innovative spirit and strong business partners, spreading our quality to the World, to create added value and difference by enlarging the business models.

#### About Us

Kodsan entered the heating industry with solid fuel boiler production when Mehmet Namık Kodaman founded the company in 1984, Ankara. It has become a leading company with its innovations, success, and peopleoriented business strategies. It has grown, developed, and renewed considerably with the strength of over 35 years of experience.

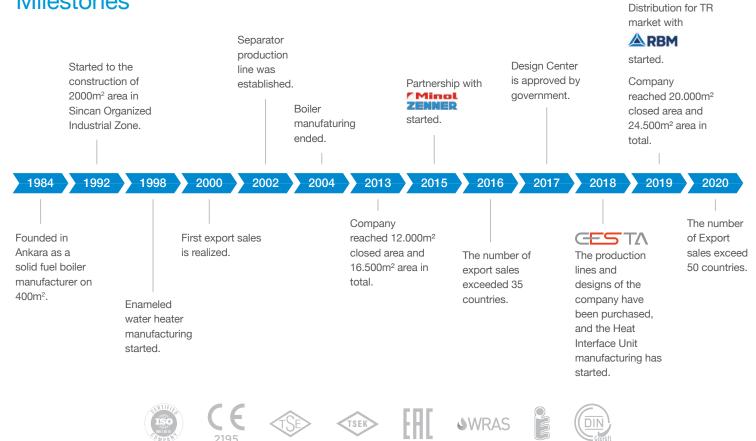
As Turkey's first and largest enamel coated water heater manufacturer, Kodsan increases its recognition in early 2000, in Turkey and surrounding countries. Kodsan manufactures enamel/ non-enamel covered water heaters, heat interface units, automatic pump controlled expansion systems, separators and filters, installment protection equipments.

Additionally, with its extensive technical service network. Kodsan provides service for energy consumption management and heat meter inspection.

#### **Our Achievements**

Kodsan shines out with its advanced technology, high efficiency products and flexible production capability which can quickly adapt to the customer demands. However among these specialities, Kodsan prioritizes human health as well as the environment. Following this principle, all production processes and products are appropriate to the Europe Environment and Human Health Regulations(Reach and Rosh). For example;

#### **Milestones**



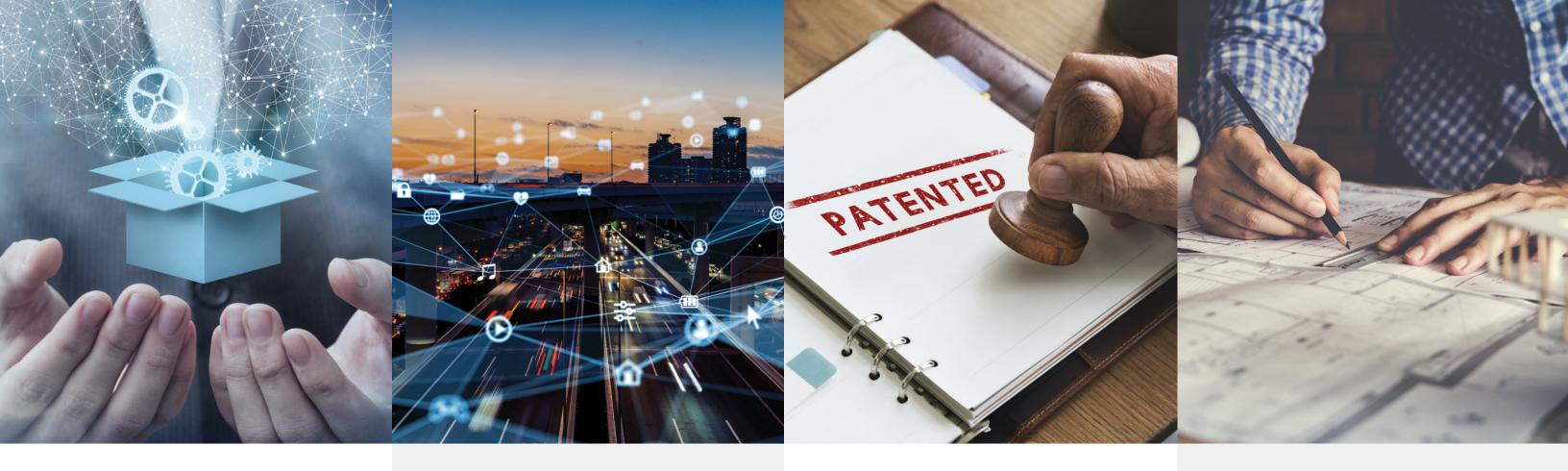
#### Main Export Countries

Azerbaijan, Canada, Denmark, France, Germany, Greece, Holland, Iraq, Israel, Italy, Kenya, Norway, Portugal, Qatar, Republic of South Africa, Russia, Saudi Arabia, South Korea, Spain, Sweden, Thailand, United Arab Emirates, United Kingdom, Uruguay



- · WRAS certification for the used enamel as well as for all the materials and products that contacts the drinkable water.

- · Kodsan manufactures specially designed products that avoid bacteria growth such as legionella which causes the legionnaire disease
- · Kodsan is one of the limited companies that has a waste water treatment facility.
- · Raw material which does not include heavy metals and with low carbon footprint are being used during production
- · Maximum sensitivity shown for recycling through all production processes.



## DESIGN

"Engineered for individual needs, configured for simple installation and maintenance."

Kodsan heat interface units offer equipment modification options and provide spot on solutions to users with their adaptable design to different projects.

## SMART

Kodsan utilizes smart equipment that allows its products to be integrated with building automation and smart thermostats to maximize energy saving and comfort

## PATENTED

Kodsan, which produces with the vision of high quality and maximum efficiency, uses patented application with specialized heat exchangers to reduce reaction time under 8 seconds to provide comfort and best user experience.



The characteristics and performance of the equipment and fittings used in Kodsan heat interface units have been tested according to standarts of BESA in Kodsan Laboratories and available all over the world.

## KFS 711 INDIRECT DOMESTIC HOT WATER HEAT INTERFACE UNIT



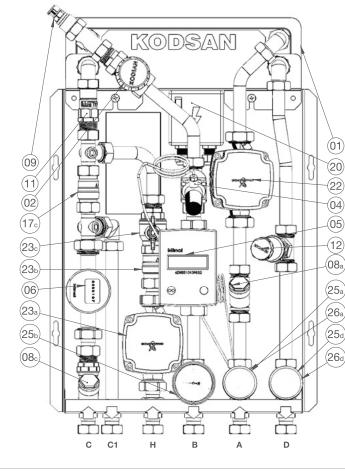
KODFLAT711 series Heat Interface Units is the most compact solution, operating with district heating system that require high static pressures and thermal medium temperatures.

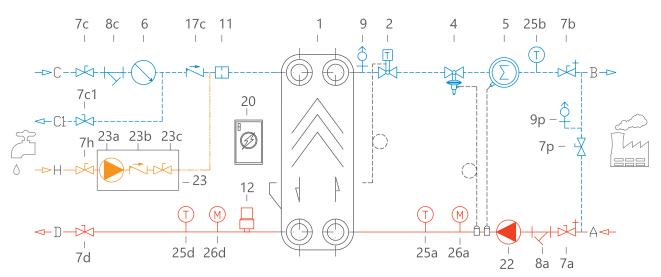
The district heating and domestic hot water circuits are completely separate; no mixing and contamination are allowed.

| Heating System           | : Two Pipe Flow                            |
|--------------------------|--|
| Mounting                 | : Wall Mounted                             |
| Dimensions               | : G x D x Y (mm) (***)                     |
| Casing                   | Painted Metal Sheet                        |
| Plate Heat Exchanger     | : Stainless Steel, Copper Brazed           |
| Pipework                 | : Stainless Steel Pipe With Brass Fittings |
| Insulation               | : EPP, ERF                                 |
| All External Connections | : G¾" Coupling                             |
|                          |  |

KODFLAT711 is useful when designing or redesigning the domestic hot water systems of apartment buildings under renovation, as well as facilitating any maintenance required in the individual dwellings.

| PRIMARY CIRCUIT                     |                 |
|-------------------------------------|-----------------|
| Nominal Heat Capacity (*)           | : 7,3-72,9 kW   |
| Min Max. Hot Water Flow Rate        | : 96-1086 l/h   |
| Min Max. Flow Temperature           | : 50- 90 °C     |
| Nominal Pressure                    | : PN 10 (****)  |
| Min. Required Differential Pressure | : 35 kPa (****) |
| SECONDARY CIRCUIT                   |                 |
| Maximum Flow Rate                   | : 1800 l/h      |
| Nominal DHW Circuit Temperature     | : 50 °C         |
| Nominal Pressure                    | : PN 10         |
|                                     |                 |





 $(\ensuremath{^*})$  kW output and DHW flow rate data are correlated with the system parameters. (\*\*) The hydraulic diagram shows all components of the material list. It may vary according to product type and application (underfloor or radiator heating). (\*\*\*) Dimensions will be alter depend on used components and connection preferences. (\*\*\*\*) Heat meter and inter-floor differential pressure regulating valve pressure losses not included. (\*\*\*\*\*) PN 16 avaliable on enquiry.

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- **01.** Plate Heat Exchanger (DHW)
- 02. Two-way Modulating Valve
- 04. Differential Pressure Regulating Valve
- 05. Heat Meter
- 06. Cold Water Flow Meter
- 07. Thermocouple Outlet Ball Valve
- 08. Strainer
- 09. Air Vent
- 11. Flow Limiter
- **12.** Water Hammer Arrestor
- 17. Non-return Valve
  - 20. Cable Terminal Box
- 22. Circulating Pump
  - 23. Re-circulating Pump Kit
  - 25. Temperature Gauge
  - 26. Pressure Gauge
  - A. District Heating Flow
  - **B.** District Heating Return
  - C. Cold Water Mains
  - C1. Domestic Cold Water
  - **D.** Domestic Hot Water (DHW)
  - H. Re-circulating Flow

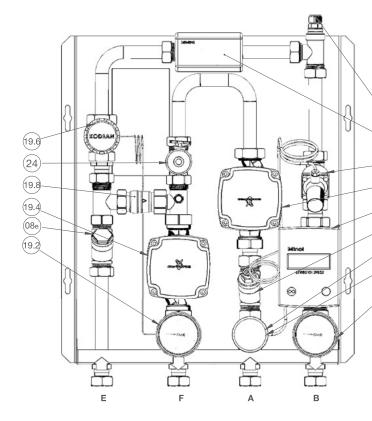


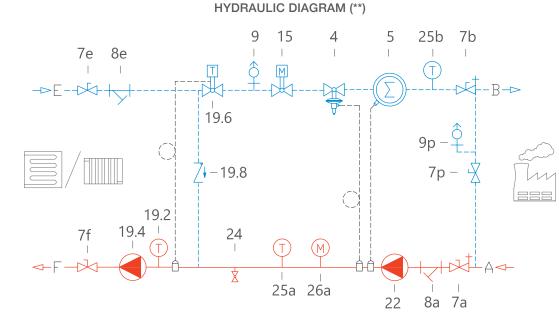
## KFS 712 DIRECT SPACE HEATING HEAT INTERFACE UNIT



KODFLAT712 series Heat Interface Units are the most compact solution, operating with district heating system that require medium static pressures and temperatures.

KODFLAT712 is useful when designing or redesigning the heating systems of apartment buildings under renovation, as well as facilitating any maintenance required in the individual dwellings.





(\*) kW output and DHW flow rate data are correlated with the system parameters. (\*\*) The hydraulic diagram shows all components of the material list. It may vary according to product type and application (underfloor or radiator heating). (\*\*\*) Dimensions will be alter depend on used components and connection preferences. (\*\*\*\*) Heat meter and inter-floor differential pressure regulating valve pressure losses not included. (\*\*\*\*\*) PN 16 avaliable on enquiry.

The district heating and space heating circuits are controlledly connected to each other.

| Heating System           | : Two Pipe Flow                           |
|--------------------------|---|
| Mounting                 | : Wall Mounted                            |
| Dimensions               | : G x D x Y (mm) (***)                    |
| Casing                   | : Painted Metal Sheet                     |
| Plate Heat Exchanger     | : Stainless Steel, Copper Brazed          |
| Pipework                 | : Stainless Steel Pipe With Brass Fitting |
| Insulation               | : EPP, ERF                                |
| All External Connections | : G¾" Coupling                            |
|                          |   |

|                   | Nominal Heat Capacity (*)           | : Underfloor Heating: 15 kW<br>Radiator Heating: 26 kW |
|-------------------|-------------------------------------|--|
|                   | Maximum Flow Rate                   | : 900 l/h  |
|                   | Nominal Water Temperature           | :70 °C   |
| er Brazed         | Min Max. Flow Temperature           | : 50-90 °C   |
| th Brass Fittings | Nominal Pressure                    | : PN 10 (****)   |
|                   | Min. Required Differential Pressure | : 35 kPa (****)  |
|                   |                                     |  |

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- **04.** Differential Pressure Regulating Valve
- 05. Heat Meter
- 07. Thermocouple Outlet Ball Valve
- 08. Strainer
- 09. Air Vent

(09)

(15)

-(04)

(22)

(05)

(08a

(25a

(26a

(25b

- **15.** Zone Control Valve
- 19-2. Temperature Gauge
- **19-4.** Circulating Pump
- 19-6. Two-way Modulating Valve
- 19-8. Non-return Valve
- **22.** Circulating Pump
- 24. Drain Cock
- **25.** Temperature Gauge
- **26.** Pressure Gauge
- A. District Heating Flow
- B. District Heating Return
- E. Space Heating Return
- F. Space Heating Flow

## KFS 713 INDIRECT SPACE HEATING HEAT INTERFACE UNIT



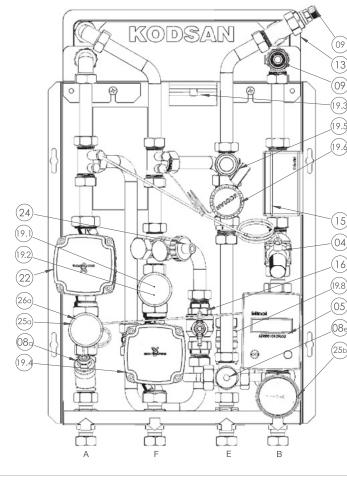
KODFLAT713 series Heat Interface Units are the most compact solution, operating with district heating system that require high static pressures and temperatures.

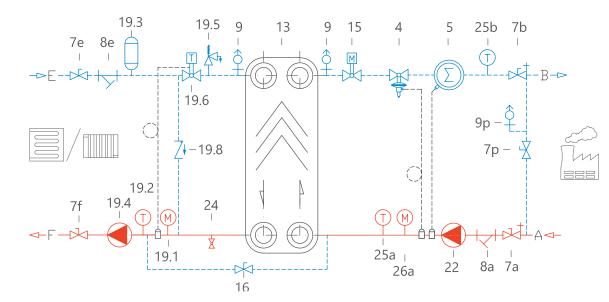
The district heating and space heating circuits are completely separate; no mixing and contamination are allowed.

| Heating System           | : Two Pipe Flow                            |
|--------------------------|--|
| Mounting                 | : Wall Mounted                             |
| Dimensions               | : G x D x Y (mm) (***)                     |
| Casing                   | : Painted Metal Sheet                      |
| Plate Heat Exchanger     | : Stainless Steel, Copper Brazed           |
| Pipework                 | : Stainless Steel Pipe With Brass Fittings |
| Insulation               | : EPP, ERF                                 |
| All External Connections | : G¾" Coupling                             |
|                          |  |

KODFLAT713 is useful when designing or redesigning the heating systems of apartment buildings under renovation, as well as facilitating any maintenance required in the individual dwellings.

|   | PRIMARY CIRCUIT                     |  |
|---|-------------------------------------|--|
|   | Nominal Heat Capacity (*)           | : Underfloor Heating: 15 kW<br>Radiator Heating: 26 kW |
|   | Maximum Flow Rate                   | :850 l/h   |
|   | Min Max. Flow Temperature           | : 50- 90 °C  |
|   | Nominal Pressure                    | : PN 10 (****)   |
| ; | Min. Required Differential Pressure | : 40 kPa (****)  |
|   | SECONDARY CIRCUIT                   |  |
|   | Maximum Flow Rate                   | : 1300 l/h   |
|   | Max. Space Heating Circuit Temp.    | :70 °C   |
|   | Nominal Pressure                    | : PN 10  |
|   |                                     |  |





 $(\ensuremath{^*})$  kW output and DHW flow rate data are correlated with the system parameters. (\*\*) The hydraulic diagram shows all components of the material list. It may vary according to product type and application (underfloor or radiator heating). (\*\*\*) Dimensions will be alter depend on used components and connection preferences. (\*\*\*\*) Heat meter and inter-floor differential pressure regulating valve pressure losses not included. (\*\*\*\*\*) PN 16 avaliable on enquiry.

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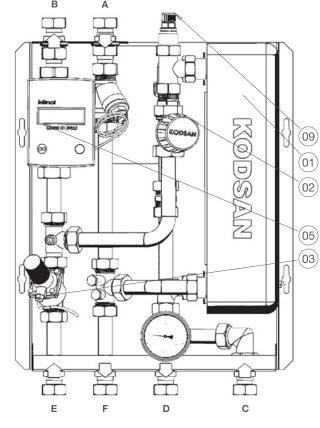


- 04. Differential Pressure Regulating Valve
- 05. Heat Meter
- 07. Thermocouple Outlet Ball Valve
- 08. Strainer
- 09. Air Vent
- **13.** Plate Heat Exchanger (Space Heating)
- **15.** Zone Control Valve
- 16. Ball Valve
- **19-1.** Pressure Gauge
- 19-2. Temperature Gauge
- 19-3. Expansion Vessel
- **19-4.** Circulating Pump
- 19-5. Safety Relief Valve
- 19-6. Two-way Modulating Valve
- 19-8. Non-return Valve
- 20. Cable Terminal Box
- **22.** Circulating Pump
- 24. Drain Cock
- **25.** Temperature Gauge
- **26.** Pressure Gauge
- A. District Heating Flow
- District Heating Return В.
- E. Space Heating Return
- F. Space Heating Flow

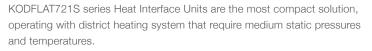
#### **HYDRAULIC DIAGRAM (\*\*)**

## KFS 721S INDIRECT DOMESTIC HOT WATER & DIRECT SPACE HEATING HEAT INTERFACE UNIT





(\*\*\*): UNDERFLOOR MIXING KIT NOT SHOWN

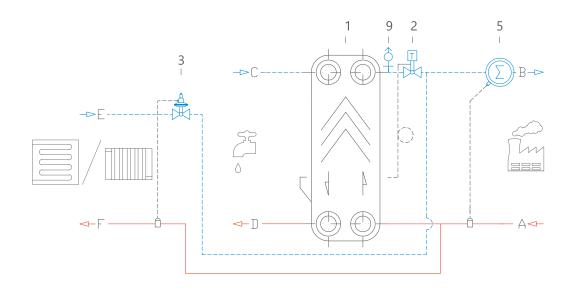


The district heating and space heating circuits are controlledly connected to each other; while DHW secondary circuits are completely separate; no mixing and contamination are allowed.

| Heating System           | : Two Pipe Flow                            |
|--------------------------|--|
| Mounting                 | : Wall Mounted                             |
| Dimensions               |  |
| Jnderfloor heating       | : 450 x 540 x 165 mm                       |
| Radiator heating         | : 450 x 400 x 125 mm                       |
| Casing                   | : Painted Metal Sheet                      |
| Plate Heat Exchanger     | : Stainless Steel, Copper Brazed           |
| Pipework                 | : Stainless Steel Pipe With Brass Fittings |
| nsulation                | : EPP, ERF                                 |
| All External Connections | : G¾" Coupling                             |
|                          |  |

KODFLAT721S is useful when designing or redesigning the heating and domestic hot water systems of apartment buildings under renovation, as well as facilitating any maintenance required in the individual dwellings.

|   | PRIMARY CIRCUIT                     |   |
|---|-------------------------------------|---|
|   | Nominal Heat Capacity (*)           | : Domestic Hot Water: 7,3-72,9 kW<br>Underfloor Heating: 15 kW<br>Radiator Heating: 26 kW |
|   | MinMax. Hot Water Flow Rate         | :96-1086 l/h  |
|   | MinMax. Flow Temperature            | : 50-90 °C  |
|   | Nominal Pressure                    | : PN 10   |
|   | Min. Required Differential Pressure | : 35 kPa (**)   |
| S | SECONDARY CIRCUIT                   |   |
|   | Maximum Flow Rate                   | : 1800 l/h  |
|   | DHW Circuit Temperature             | : 10/60 °C  |
|   | Space Heating Circuit Temperature   | : 50/70 °C  |
|   | Nominal Pressure                    | : PN 10   |
|   |                                     |   |



(\*) kW output and DHW flow rate data are correlated with the system parameters. (\*\*) Heat meter and inter-floor differential pressure regulating valve pressure losses not included. (\*\*\*) Underfloor mixing kit is not shown. Connections assembly configuration may vary accordingly. (\*\*\*\*) The pictures, material list and hydraulic diagram show only compenents for radiator heating. They may vary according to underfloor heating application.

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### **KODSAN**

- 01. Plate Heat Exchanger (DHW)
- 02. Two-way Modulating Valve
- **03.** Differential Pressure Regulating Valve
- 05. Heat Meter
- 09. Air Vent
- A. District Heating Flow
- B. District Heating Return
- C. Cold Water Mains
- D. Domestic Hot Water (DHW)
- E. Space Heating Return
- F. Space Heating Flow

#### HYDRAULIC DIAGRAM

## KFS 721 INDIRECT DOMESTIC HOT WATER & DIRECT SPACE HEATING HEAT INTERFACE UNIT



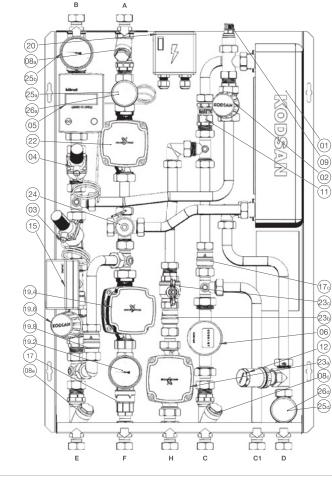
KODFLAT721 series Heat Interface Units are the most compact solution, operating with district heating system that require medium static pressures and temperatures.

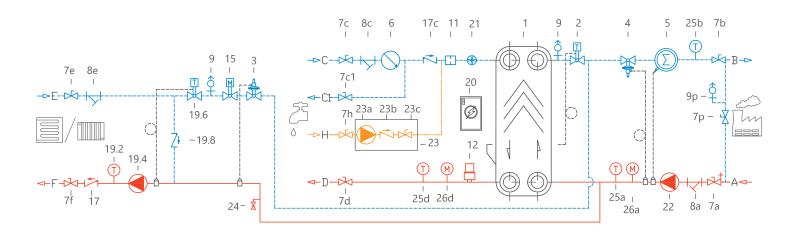
The district heating and space heating circuits are controlledly connected to each other; while DHW secondary circuits are completely separate; no mixing and contamination are allowed.

| Heating System           | : Two Pipe Flow                            |
|--------------------------|--|
| Mounting                 | : Wall Mounted                             |
| Dimensions               | : G x D x Y (mm) (***)                     |
| Casing                   | : Painted Metal Sheet                      |
| Plate Heat Exchanger     | : Stainless Steel, Copper Brazed           |
| Pipework                 | : Stainless Steel Pipe With Brass Fittings |
| Insulation               | : EPP, ERF                                 |
| All External Connections | : G¾" Coupling                             |
|                          |  |

KODFLAT721 is useful when designing or redesigning the heating and domestic hot water systems of apartment buildings under renovation, as well as facilitating any maintenance required in the individual dwellings.

|   | PRIMARY CIRCUIT                     |   |
|---|-------------------------------------|---|
|   | Nominal Heat Capacity (*)           | : Domestic Hot Water: 7,3-72,9 kW<br>Underfloor Heating: 15 kW<br>Radiator Heating: 26 kW |
|   | MinMax. Hot Water Flow Rate         | :96-1086 l/h  |
|   | MinMax. Flow Temperature            | : 50-90 °C  |
| 5 | Nominal Pressure                    | : PN 10 (*****)   |
|   | Min. Required Differential Pressure | : 35 kPa (****)   |
|   | SECONDARY CIRCUIT                   |   |
|   | Maximum Flow Rate                   | : 1800 l/h  |
|   | DHW Circuit Temperature             | : 10/60 °C  |
|   | Space Heating Circuit Temperature   | : 50/70 °C  |
|   | Nominal Pressure                    | : PN 10   |
|   |                                     |   |





 $(\ensuremath{^*})$  kW output and DHW flow rate data are correlated with the system parameters. (\*\*) The hydraulic diagram shows all components of the material list. It may vary according to product type and application (underfloor or radiator heating). (\*\*\*) Dimensions will be alter depend on used components and connection preferences. (\*\*\*\*) Heat meter and inter-floor differential pressure regulating valve pressure losses not included. (\*\*\*\*) PN 16 avaliable on enquiry.

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- **01.** Plate Heat Exchanger (DHW)
- **02.** Two-way Modulating Valve
- 03. Differential Pressure Regulating Valve
- 04. Differential Pressure Regulating Valve
- 05. Heat Meter
- 06. Cold Water Flow Meter
- 07. Thermocouple Outlet Ball Valve
- 08. Strainer
- 09. Air Vent
- 11. Flow Limiter
- 12. Water Hammer Arrestor
- **15.** Zone Control Valve
- **17.** Non-return Valve
- 19-2. Temperature Gauge
- **19-4.** Circulating Pump
- **19-6.** Two-way Modulating Valve
- 19-8. Non-return Valve
- 20. Cable Terminal Box
- 21. Flow Sensor
- 22. Circulating Pump
- 23. Re-circulating Pump Kit
- 24. Drain Cock
  - 25. Temperature Gauge
  - 26. Pressure Gauge
  - A. District Heating Flow
  - District Heating Return В.
  - **C.** Cold Water Mains
  - C1. Domestic Cold Water
  - **D.** Domestic Hot Water (DHW)
  - E. Space Heating Return
  - F. Space Heating Flow
  - H. Re-circulating Flow



### KFS 722 INDIRECT DOMESTIC HOT WATER & INDIRECT SPACE HEATING HEAT INTERFACE UNIT



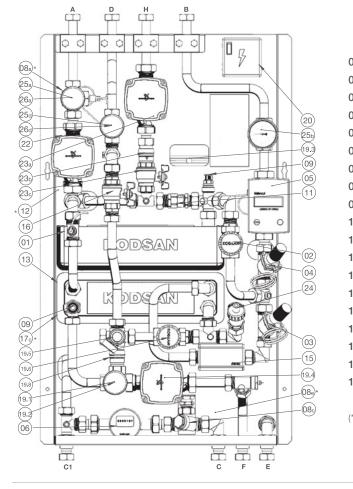
KODFLAT722 series Heat Interface Units are the most compact solution, operating with district heating system that require high static pressures and thermal medium temperatures.

The domestic hot water and space heating circuits are completely separate from the district heating circuit; no mixing and contamination are allowed.

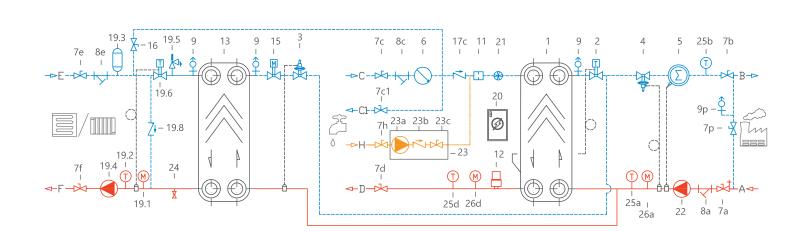
| Heating System           | : Two Pipe Flow                            |
|--------------------------|--|
| Mounting                 | : Wall Mounted                             |
| Dimensions               | : G x D x Y (mm) (***)                     |
| Casing                   | : Painted Metal Sheet                      |
| Plate Heat Exchanger     | : Stainless Steel, Copper Brazed           |
| Pipework                 | : Stainless Steel Pipe With Brass Fittings |
| Insulation               | : EPP, ERF                                 |
| All External Connections | : G¾" Coupling                             |
|                          |  |

KODFLAT722 is useful when designing or redesigning the heating and domestic hot water systems of apartment buildings under renovation, as well as facilitating any maintenance required in the individual dwellings.

| PRIMARY CIRCUIT                     |   |
|-------------------------------------|---|
| Nominal Heat Capacity (*)           | : Domestic Hot Water: 7,3-72,9 kW<br>Underfloor Heating: 15 kW<br>Radiator Heating: 26 kW |
| MinMax. Hot Water Flow Rate         | :96-1086 l/h  |
| MinMax. Flow Temperature            | : 50-90 °C  |
| Nominal Pressure                    | : PN 10 (****)  |
| Min. Required Differential Pressure | : 35 kPa (****)   |
| SECONDARY CIRCUIT                   |   |
| Maximum Flow Rate                   | : 1800 l/h  |
| DHW Circuit Temperature             | : 10/60 °C  |
| Space Heating Circuit Temperature   | : 50/70 °C  |
| Nominal Pressure                    | : PN 10   |
|                                     |   |



**HYDRAULIC DIAGRAM (\*\*)** 



(\*) kW output and DHW flow rate data are correlated with the system parameters. (\*\*) The hydraulic diagram shows all components of the material list. It may vary according to product type and application (underfloor or radiator heating). (\*\*\*) Dimensions will be alter depend on used components and connection preferences. (\*\*\*\*) Heat meter and inter-floor differential pressure regulating valve pressure losses not included. (\*\*\*\*\*) PN 16 avaliable on enquiry.

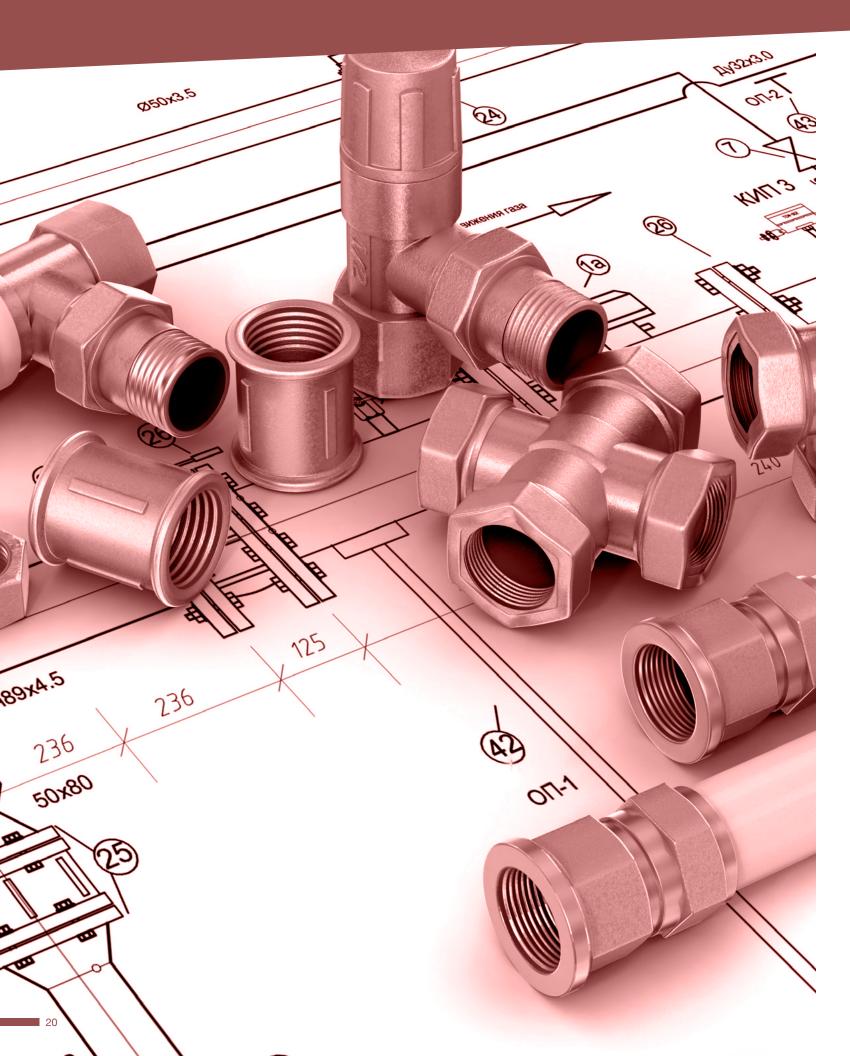
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- 01. Plate Heat Exchanger (DHW)
- 02. Two-way Modulating Valve
- 03. Differential Pressure Regulating Valve
- 04. Differential Pressure Regulating Valve
- 05. Heat Meter
- 06. Cold Water Flow Meter
- 07. Thermocouple Outlet Ball Valve
- 08. Strainer
- 09. Air Vent
- 11. Flow Limiter
- 12. Water Hammer Arrestor
- 13. Plate Heat Exchanger (Space Heating)
- Zone Control Valve 15.
- 16. Ball Valve
- 17. Non-return Valve
- 19-1. Pressure Gauge
- 19-2. Temperature Gauge
- 19-3. Expansion Vessel
- 19-4. Circulating Pump

(\*): nonvisible components

- **19-5.** Safety Relief Valve
- 19-6. Two-way Modulating Valve
- 19-8. Non-return Valve
- 20. Cable Terminal Box
- 21. Flow Sensor
- 22. Circulating Pump
- 23. Re-circulating Pump Kit
- 24. Drain Cock
- 25. Temperature Gauge
- 26. Pressure Gauge
- District Heating Flow Α.
- В. District Heating Return
- C. Cold Water Mains
- C1. Domestic Cold Water
- D. Domestic Hot Water (DHW)
- Ε. Space Heating Return
- F. Space Heating Flow
- Н. Re-circulating Flow



#### **IMPORTANT NOTES**

- We highly recommend to follow instructions specified at the user and installation guide attached to your product in order to secure of using it in safe and efficient.
- · Safety Valve, expansion tank and, if required, pressure reducer valve should be used with our products (water heaters and storage tanks).
- · KODSAN reserves the right to change the product specifications, technical information and installation diagrams without any notifications.

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• You may contact Kodsan for more details about your product.

| SYMBOLS                                 |                           |                          |
|---|---------------------------|--------------------------|
|   | X                         | H                        |
| Two-Way<br>Motorized Valve              | Bypass Valve              | Pump                     |
|   | X                         |                          |
| Three-Way Modulating<br>Motorized Valve | Drain Valve               | Twin-Head Pump           |
| $\mathbb{A}/\mathbb{A}$                 | ¥                         |                          |
| Two Way<br>Thermostatic Valve           | Shut Off Valve            | Heat Meter               |
| \$                                      | Γ <del>,</del>            | $\bigcirc$               |
| Three Way<br>Thermostatic Valve         | Strainer                  | Cold Water<br>Flow Meter |
|   |                           | M                        |
| Filling Valve                           | Check Valve               | Pressure Gauge           |
| Ň                                       |                           | Ţ                        |
| Ball Valve                              | Pressure<br>Release Valve | Thermometer              |
| K,                                      |                           | €<br> -                  |
| Thermostatic Outlet Ball<br>Valve       | Safety Thermostat         | Air Relief Cock          |

