

**ORDER FORM**

for selection (manufacturing) of composite ventilation units AVS (SVAN)

1. Customer (organization name): \_\_\_\_\_  
 2. Delivery, m<sup>3</sup>/h: \_\_\_\_\_  
 3. Free pressure, Pa: \_\_\_\_\_  
 4. Air temperature (t<sub>inlet</sub>/t<sub>outlet</sub>), °C: \_\_\_\_\_ / \_\_\_\_\_

| 5. Ventilation unit composition |  | Parameter values |
|---------------------------------|--|------------------|
| Air valve                       | electrically operated                      |                  |
|                                 | manually operated                          |                  |
| Receiving (mixing) unit         | with one valve                             |                  |
|                                 | with two valves                            |                  |
| One-stage filter                | cleaning class                             |                  |
| Two-stage filter                | cleaning class                             |                  |
| Water heater                    | water temperature (tinlet/<br>toutlet), °C |                  |
| Steam heater                    | steam pressure (P), MPa                    |                  |
| Electrical heater               | maximum power, kW                          |                  |
| Fan unit                        | main                                       |                  |
|                                 | redundant                                  |                  |
| Silencer                        | length, m                                  |                  |
| Auxiliary silencer              | length, m                                  |                  |
| Air cooler                      | water                                      |                  |
|                                 | freon with condensing unit                 |                  |
| Intermediate chamber unit       |  |                  |

| 6. Optional equipment for ventilation unit |  |  |
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| 7. Sketch of ventilation unit – operator side view with an indication of air flow direction and dimension limits |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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8. Contact person: \_\_\_\_\_

9. Telephone, fax: \_\_\_\_\_

CVM MANUFACTURING WORKS CO LTD  
www.cvm.ru43, Traktornaya str., Vladimir 600005, Russia  
Tel./fax.: (495)975-93-59  
E-mail: vladimir@cvm.ru14, Dorogobuzhskaya str., Moscow, 121354, Russia  
Tel./fax: (495)786-34-72  
E-mail: info@cvm.ru

**ORDER FORM**

for selection (manufacturing) of attachment heating and ventilation units NOVA

**1. Temperatures of:**

- ambient air, °C: \_\_\_\_\_
- indoor air, °C: \_\_\_\_\_
- heat exchanger Tin/Tout, °C: \_\_\_\_\_

**2. Heating capacity, kW** \_\_\_\_\_

**3. Exterior building volume, m<sup>3</sup>** \_\_\_\_\_

**4. Building type (underline as appropriate):**

- with large fenestration Type 1
- general buildings Type 2
- buildings with improved heat insulation Type 3

**5. Initial jet deflection angle, degrees**

- 0°
- 30°
- 45°
- 60°
- 90°

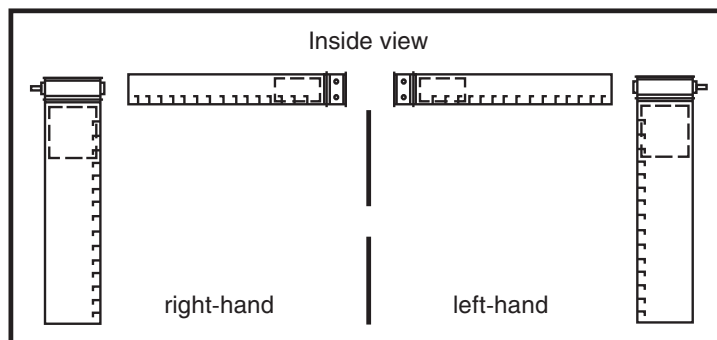
**6. Customer (organization name):** \_\_\_\_\_

**7. Contact person, telephone:** \_\_\_\_\_

## ORDER FORM

for selection (manufacturing) of curtain

1. Curtain type: \_\_\_\_\_
2. Gate dimensions:
- width, m: \_\_\_\_\_
- height, m: \_\_\_\_\_
3. Number of equal size gates: \_\_\_\_\_
4. Curtain location:
- above gates; sideways: one-side, two-side (underline as appropriate) \_\_\_\_\_
5. Temperatures of:
- ambient air, °C: \_\_\_\_\_
- indoor air, °C: \_\_\_\_\_
- air of jet end, °C: \_\_\_\_\_
6. Wind velocity, m/s: \_\_\_\_\_
7. Dimensional limits for curtain location:
- by height, m \_\_\_\_\_
- by inside width to the left, m \_\_\_\_\_
- by inside width to the right, m \_\_\_\_\_
- 8\*. Aperture location in duct cross-section along the air flow direction (see figure):  
right-hand, left-hand (underline as appropriate) \_\_\_\_\_
- 9\*. Aperture location along the side of duct cross-section  
short (S), long (L)\*\* (underline as appropriate) \_\_\_\_\_
- 10\*. Heat carrier:  
water, steam, electricity (tubular electric heater), without heat carrier  
(underline as appropriate) \_\_\_\_\_
- 11\*. Maximum allowed power of electrical air heater, kW: \_\_\_\_\_
- 12\*. Water temperature (inlet, outlet), °C: \_\_\_\_\_ / \_\_\_\_\_  
steam pressure, Pa \_\_\_\_\_
13. Customer (organization name): \_\_\_\_\_
14. Contact person, telephone: \_\_\_\_\_



\*) For ZVV only.

The following curtain version is possible on special order:

- with powder paint coating,  
 with filter

\*\*\*) In case of water air heater curtain location above gate L only.

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www.cvm.ru

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## ORDER FORM

for the design and manufacturing of Central air conditioning systems KKTsM

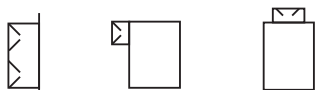
|                       |                       |
|-----------------------|-----------------------|
| Organization: _____   | Object: _____         |
| Contact person: _____ | Object address: _____ |
| Region (city): _____  | _____                 |
| Tel./fax: _____       | _____                 |
| E-mail: _____         | _____                 |


MARK WHICHEVER APPLIES

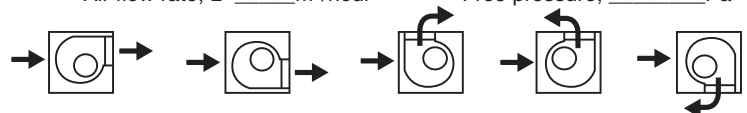
**Unit characteristics**

|   |   |
|---|---|
| System type: _____  | Number of system: _____ pcs.  |
| Operator side: <input type="checkbox"/> Other <input type="checkbox"/> Left | Utility connection side: <input type="checkbox"/> Other <input type="checkbox"/> Left |
| Delivery: _____   |   |

| Conditioner composition (suction part) | Specification |
|--|---------------|
|--|---------------|

|           |   |  |
|-----------|---|--|
| Air inlet |  | recirculation _____% $T_{ai} =$ _____ °C<br>$T_{ao} =$ _____ °C $d_{ai} =$ _____ r/kF<br>$\Phi_{ao} =$ _____ %<br>or $t_{mix} =$ _____ °C $\Phi_{mix} =$ _____ % |
|-----------|---|--|

|          |  |  |
|----------|--|--|
| Fan unit | Air flow rate, $L =$ _____ m <sup>3</sup> /hour      Free pressure, _____ Pa<br> |  |
|----------|--|--|

|             |   |  |
|-------------|---|--|
| Standby fan | Air flow rate, $L =$ _____ m <sup>3</sup> /hour      Free pressure, _____ Pa<br> |  |
|-------------|---|--|

|              |   |            |             |
|--------------|---|------------|-------------|
| Filter units | Coarse cellular G3, G4 (flat, cellular) | Type _____ | Class _____ |
|              | Coarse and fine pocket G3...F9          | Type _____ | Class _____ |

|                        |            |  |   |                                 |                               |
|------------------------|------------|--|---|---------------------------------|-------------------------------|
| Liquid air heater unit | I heating  | Air temperature<br>$t_{in} =$ _____ °C<br>$t_{out} =$ _____ °C | Heat carrier temperature<br>$t_{in} =$ _____ °C<br>$t_{out} =$ _____ °C | Capacity (optional)<br>_____ kW | Bypass channel control: _____ |
|                        | II heating | $t_{in} =$ _____ °C<br>$t_{out} =$ _____ °C                    | $t_{in} =$ _____ °C<br>$t_{out} =$ _____ °C                             |                                 |                               |

|                       |            |  |   |                                 |  |
|-----------------------|------------|--|---|---------------------------------|--|
| Steam air heater unit | I heating  | Air temperature<br>$t_{in} =$ _____ °C<br>$t_{out} =$ _____ °C | Steam temperature<br>$T_{st} =$ _____ °C<br>Steam pressure<br>$P_{st} =$ _____ Pa | Capacity (optional)<br>_____ kW |  |
|                       | II heating | $t_{in} =$ _____ °C<br>$t_{out} =$ _____ °C                    | $T_{st} =$ _____ °C<br>Steam pressure<br>$P_{st} =$ _____ Pa                      | _____ kW                        |  |

|                            |            |  |       |                                 |                               |
|----------------------------|------------|--|-------|---------------------------------|-------------------------------|
| Electrical air heater unit | I heating  | Air temperature<br>$t_{in} =$ _____ °C<br>$t_{out} =$ _____ °C | _____ | Capacity (optional)<br>_____ kW | Bypass channel control: _____ |
|                            | II heating | $t_{in} =$ _____ °C<br>$t_{out} =$ _____ °C                    | _____ | _____ kW                        | _____                         |

|   |  |                                       |                   |
|---|--|---------------------------------------|-------------------|
| Water air heater unit<br><input type="checkbox"/> without droplet separator<br><input type="checkbox"/> with droplet separator and tray | Air parameters<br>$t_{in} =$ _____ °C $t_{out} =$ _____ °C<br>$l_n =$ _____ °C $l_k =$ _____ °C<br>$\Phi_n =$ _____ % $\Phi_k =$ _____ % | Coolant type _____<br>content _____ % | Capacity _____ kW |
|---|--|---------------------------------------|-------------------|


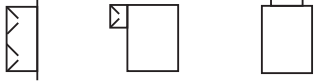

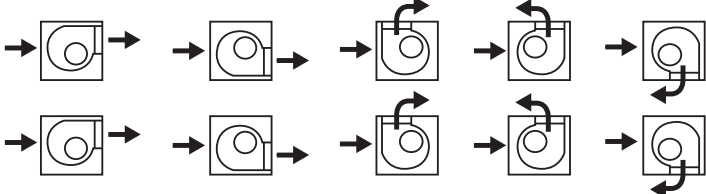

|   |   |                    |                   |
|---|---|--------------------|-------------------|
| Freon air heater unit<br><input type="checkbox"/> without droplet separator<br><input type="checkbox"/> with droplet separator and tray | Air parameters<br>$t_{in} =$ _____ °C $t_{out} =$ _____ °C<br>$l_n =$ _____ °C $l_k =$ _____ °C<br>$\Phi_n =$ _____ % $\Phi_k =$ _____ %<br>Evaporation temperature _____ °C<br>Condensation temperature _____ °C | Coolant type _____ | Capacity _____ kW |
|---|---|--------------------|-------------------|

|                           |   |  |                                       |
|---------------------------|---|--|---------------------------------------|
| Waste heat recovery units | Recovery with intermediate heat carrier | Air parameters (cold period)<br>$T_{amb} =$ _____ °C $T_{exhaust} =$ _____ °C<br>$\Phi_{amb} =$ _____ % $\Phi_{exhaust} =$ _____ % | Coolant type _____<br>content _____ % |
|                           |   | Air parameters (warm period)<br>$T_{amb} =$ _____ °C $T_{exhaust} =$ _____ °C<br>$\Phi_{amb} =$ _____ % $\Phi_{exhaust} =$ _____ % | Coolant type _____<br>content _____ % |

|   |  |
|---|--|
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### ORDER FORM

for the design and manufacturing of Central air conditioning systems KKTsM (continued)

|   |  |  |   |                    |                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---|--|--|---|--------------------|---------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Waste heat recovery units   | Plate recuperator  | Air parameters (cold period)   |   |                    |                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   |  | $T_{amb} =$ _____ °C   | $T_{exhaust} =$ _____ °C  | —                  |                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   |  |  | Air parameters (warm period)  |                    |                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   | $\Phi_{amb} =$ _____ %   | $\Phi_{exhaust} =$ _____ %   |   |                    | —                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Rotor recuperator   |  | Air parameters (cold period)   |   |                    |                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   |  | $T_{amb} =$ _____ °C   | $T_{exhaust} =$ _____ °C  | —                  |                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   |  |  | Air parameters (warm period)  |                    |                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   | $\Phi_{amb} =$ _____ %   | $\Phi_{exhaust} =$ _____ %   |   |                    | —                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Humidification units  | Spray chamber unit   | $t_{init} =$ _____ °C  | $t_{end} =$ _____ °C  | Configuration:     |                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   | Honeycomb humidification unit  | $\Phi_{init} =$ _____ %  | $\Phi_{end} =$ _____ %  |                    |                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   | Steam humidification unit  | $T_{init} =$ _____ °C  | $T_{con} =$ _____ °C  |                    | Pel.un. = _____ кВт |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   |  | $\Phi_{init} =$ _____ %  | $\Phi_{con} =$ _____ %  | Gst = _____ кг/час |                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Silencer unit   |  | Plate length (mm)  |   |                    |                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Intermediate chamber unit<br><input type="checkbox"/> with door<br><input type="checkbox"/> with sight port   |  | Length _____ mm  |   |                    |                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| Outlet chamber  |  | Exhaust  |   |                    |                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Conditioner composition (exhaust part)  |  | Specification  |   |                    |                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Air inlet   |     |  | recirculation _____ % $T_{ai} =$ _____ °C<br>$T_{ao} =$ _____ °C $d_{ai} =$ _____ r/kr<br>$\Phi_{ao} =$ _____ %<br>or $t_{mix} =$ _____ °C $\Phi_{mix} =$ _____ % |                    |                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   |  |  |   |                    |                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fan unit  | Air flow rate, $L =$ _____ m <sup>3</sup> /hour                                      |  | Free pressure, _____ Pa   |                    |                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   |  |  |   |                    |                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Standby fan   | Air flow rate, $L =$ _____ m <sup>3</sup> /hour                                      |  | Free pressure, _____ Pa   |                    |                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   |  |  |   |                    |                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Filter units  | Coarse cellular G3, G4 (flat, cellular)  | Type _____   | Class _____   |                    |                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   | Coarse and fine pocket G3...F9   | Type _____   | Class _____   |                    |                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Silencer unit   |  | Plate length (mm)  |   |                    |                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Intermediate chamber unit<br><input type="checkbox"/> with door<br><input type="checkbox"/> with sight port   |  | Length _____ mm  |   |                    |                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| Outlet chamber  |  | Exhaust  |   |                    |                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Automatics set  |  |  |   |                    |                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Packaging   |  |  |   |                    |                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Further Information   |  |  |   |                    |                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CONDITIONER DIAGRAM (AIR HANDLING UNIT CHAMBER)   |  |  |   |                    |                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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Signature: \_\_\_\_\_ (name in full)

Note: Customer is responsible for questionnaire filling in.

## ORDER FORM

for selection of automatic control system of the air handling units

1. Customer (organization name): \_\_\_\_\_

2. Air handling unit composition: \_\_\_\_\_

**2.1. Air valve:**

- manually operated
- electrically operated: power supply  ~220 V /  ~24 V, drive type: \_\_\_\_\_

**2.2. Filter:**

- without clogging control
- with filter clogging control

Number of filters: \_\_\_\_\_ pcs.

**2.3. Heater**

- water:
  - water flow rate Q, m<sup>3</sup>/h: \_\_\_\_\_
  - heater hydraulic resistance c1P<sub>k</sub>, kPa: \_\_\_\_\_
  - direct and return water temperatures: T<sub>dir</sub>/T<sub>ret</sub>, °C: \_\_\_\_\_ / \_\_\_\_\_
  - inlet and outlet air temperature t<sub>in</sub>/ t<sub>out</sub>, °C: \_\_\_\_\_ / \_\_\_\_\_
  - water differential pressure P<sub>dir</sub> / P<sub>ret</sub>, kgf/cm<sup>2</sup>: \_\_\_\_\_ / \_\_\_\_\_
- electrical:
  - power N, kW: \_\_\_\_\_
  - power supply voltage:  1-220 V/  3-380 V
  - number and power of stages: \_\_\_\_\_
- steam:
  - steam pressure P, kgf/cm<sup>2</sup>: \_\_\_\_\_
  - steam temperature T<sub>st</sub>, °C: \_\_\_\_\_
  - steam flow rate Q, kg/h: \_\_\_\_\_

**2.4. Cooler**

- water:
  - water flow rate Q, m<sup>3</sup>/h: \_\_\_\_\_
  - heater hydraulic resistance CP<sub>k</sub>, kPa: \_\_\_\_\_
  - direct and return water temperatures: T<sub>dir</sub>/T<sub>ret</sub>, °C: \_\_\_\_\_ / \_\_\_\_\_
  - inlet and outlet air temperature t<sub>in</sub>/ t<sub>out</sub>, °C: \_\_\_\_\_ / \_\_\_\_\_
  - water differential pressure P<sub>dir</sub> / P<sub>ret</sub>, kgf/cm<sup>2</sup>: \_\_\_\_\_ / \_\_\_\_\_
- freon
  - inlet and outlet air temperature t<sub>in</sub>/ t<sub>out</sub>, °C: \_\_\_\_\_ / \_\_\_\_\_

**2.5. Fan**

- shaft power Ne, kW: \_\_\_\_\_
- power supply voltage:  1-220 V/  3-380 V
- external rotor motor
- general industrial induction motor
- motor thermal switch availability and its type: O – bimetallic, O – thermistor
- necessity of fan speed control

3. Optional components of air handling unit and their basic parameters:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

4. Control system optional functions (see catalog or TOR):

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

5. Contact person: \_\_\_\_\_

6. Telephone, fax, e-mail: \_\_\_\_\_

|   |   |
|---|---|
| CVM MANUFACTURING WORKS CO LTD  |   |
| www.cvm.ru  |   |
| 43, Traktornaya str., Vladimir 600005, Russia<br>Tel./fax.: (495)975-93-59<br>E-mail: vladimir@cvm.ru | 14, Dorogobuzhskaya str., Moscow, 121354, Russia<br>Tel./fax: (495)786-34-72<br>E-mail: info@cvm.ru |

## ORDER FORM

### for manufacturing of heat exchanger

1. Customer (organization name) \_\_\_\_\_

2. Initial data for selection and manufacturing of heat exchanger

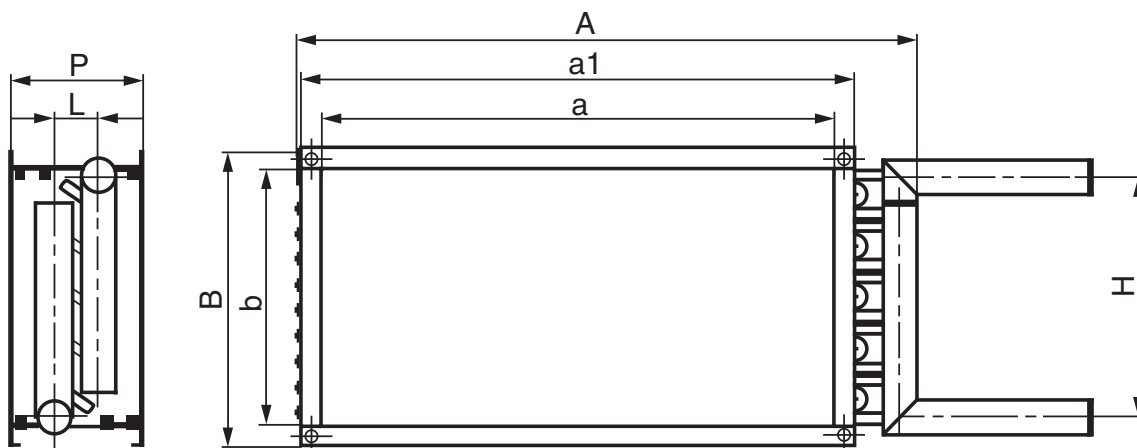
| Initial data                                 |   | Parameter values |       |
|--|---|------------------|-------|
| AIR  | Flow rate LA, m <sup>3</sup> /h                                       |                  |       |
|  | Temperature, t <sub>in</sub> °C                                       |                  |       |
|  | Temperature, t <sub>out</sub> °C                                      |                  |       |
|  | Barometric pressure P <sub>b</sub> , mm Hg                            |                  |       |
|  | * Enthalpy, kJ (desired)  |                  |       |
|  | * Relative humidity, %  |                  |       |
| HEAT CARRIER                                 | Heat carrier type (water, steam, freon, glycol mixtures (%) or other) |                  |       |
|  | Flow rate GL (maximum), kg/h  |                  |       |
|  | Temperature, t <sub>in</sub> °C                                       |                  |       |
|  | Temperature, t <sub>out</sub> °C                                      |                  |       |
|  | ** Inlet pressure, P <sub>bar</sub>                                   |                  |       |
| Power Q, kW                                  |   |                  |       |
| Operation with regard to air flow direction: |   | right-hand       |       |
|  |   | left-hand        |       |
| Overall and connection dimensions, mm        |   |                  |       |
| b***   | a   | A                | H**** |
| B  | a1****  | P****            | L**** |

\*) for air coolers;

\*\*) for steam heat exchangers;

\*\*\*) divisible by 25 mm (for tube □9.52) and 50 mm (for tube □12.0);

\*\*\*\*) dimensions are not mandatory if there are no connection strict requirements.



3. Contact person: \_\_\_\_\_

4. Telephone, fax: \_\_\_\_\_

CVM MANUFACTURING WORKS CO LTD  
www.cvm.ru

43, Traktornaya str., Vladimir 600005, Russia  
Tel./fax.: (495)975-93-59  
E-mail: vladimir@cvm.ru

14, Dorogobuzhskaya str., Moscow, 121354, Russia  
Tel./fax: (495)786-34-72  
E-mail: info@cvm.ru

**ORDER FORM**  
for selection (manufacturing) of dry cooler

Customer (organization name): \_\_\_\_\_

1. Required cooling capacity, kW \_\_\_\_\_

2. Coolant: \_\_\_\_\_

– water \_\_\_\_\_

– glycol solution (%) \_\_\_\_\_

– other medium (characteristics) \_\_\_\_\_

– flow rate, m<sup>3</sup>/h. \_\_\_\_\_

– or kg/h. \_\_\_\_\_

– initial temperature, °C: \_\_\_\_\_

– end temperature, °C: \_\_\_\_\_

3. Ambient air parameters\*:

– temperature, °C: \_\_\_\_\_

– relative humidity, %: \_\_\_\_\_

\* Ambient air parameters for warm season of the year.

4. Maximum coolant pressure drop, kPa \_\_\_\_\_

5. Installation type

horizontal

vertical

V-shaped

6. Dimension limits (if any), m \_\_\_\_\_

7. Options:

High temperature protection (“Reversal” configuration)

Protected construction (epoxidation)

Vibration mounts

Automatics set

Fan explosion-proofness

Contact person: \_\_\_\_\_

Telephone, fax: \_\_\_\_\_