

JAD™

shell & coil heat exchangers

## JAD SHELL & COIL HEAT EXCHANGERS

JAD shell & coil heat exchangers are manufactured of stainless steel. Compact construction, easy installation, high efficiency and reliability are the core advantages of JAD.



### CONSTRUCTION

JAD heat exchangers consist of a spiral formed coil enclosed within an outer shell.

In JAD K type the coil is corrugated which intensifies heat exchange.

JAD X (K) heat exchangers offer the ideal solution when steam is used as the primary heating medium.

### STANDARD MATERIALS

JAD is manufactured using stainless steel materials throughout. Carbon steel connecting flanges are an option. Other materials are possible upon request.

### WORK PARAMETERS

Max. pressure 1,6 MPa

Max. temperature  
 JAD X(K), SX(K), HK 203 °C  
 JAD (K), S(K) 165 °C

\* Heat exchangers meeting other pressure requirements and temperatures are also possible.

### MEDIA

JAD X(K), SX(K), HK water, steam water, glycol

JAD (K), S(K) water, glycol

\* Other media permitted upon consulting with producer.

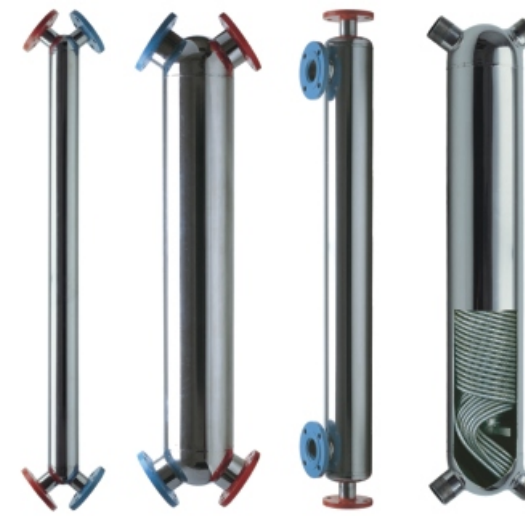
### APPLICATIONS

- heating systems
- refrigeration
- heat exchange in industrial processes
- food and chemical industry



### INSULATION

- minimize the loss of valuable heat
- easy to fit and remove
- made of polyurethane foam (PFI) or aluminium covered mineral wool (AMWI)
- max. thermal resistance is 135 °C for PFI and 250 °C for AMWI
- insulation with thermal resistance up to 350 °C is also possible



## ADVANTAGES OF JAD HEAT EXCHANGERS

### High efficiency

- unique design promotes greater turbulence.

### Working conditions

- can handle a wide range of temperatures and pressures.

### Space saving

- thanks to vertical installation.

### Low maintenance costs

- internal design features reduce fouling.

### Design freedom

- Variety of types and easy selection with CAIRO free software.

| Type of exchanger     | Heat exchange surface<br>m <sup>2</sup> | Tubes diameter<br>mm | Weight<br>kg | Shell volume<br>l | Heating coil volume<br>l | Dimensions   |             | Connections |             |
|-----------------------|---|----------------------|--------------|-------------------|--------------------------|--------------|-------------|-------------|-------------|
|                       |   |                      |              |                   |                          | Height<br>mm | Width<br>mm | Shell side  | Tubes side  |
| H0K                   | 0,29                                    | 8                    | 4,1 7,1      | 1,0               | 0,5                      | 585 585      | 140 140     | 3/4" DN20   | 1/2" DN15   |
| H1K                   | 0,76                                    | 8                    | 7,3 10,3     | 2,4               | 1,1                      | 800 800      | 161 161     | 3/4" DN20   | 1/2" DN15   |
| H2K                   | 1,32                                    | 8                    | 10,9 13,4    | 3,0               | 1,9                      | 1060 1060    | 161 161     | 1" DN25     | 1" DN25     |
| S1 (K)                | 3,00                                    | 8                    | 23,5 32,0    | 8,1               | 6,2                      | 1060 1060    | 240 240     | 2" DN50     | 1 1/2" DN40 |
| S0 X(K)               | 2,30                                    | 8                    | 19,0 24,0    | 6,2               | 3,3                      | 948 1026     | 235 300     | 1 1/2" DN40 | 1 1/2" DN40 |
| S1 X(K)               | 3,14                                    | 8                    | 24,0 29,0    | 9,8               | 4,5                      | 1030 1108    | 237 302     | 1 1/2" DN40 | 1 1/2" DN40 |
| JAD (K) 3.18          | 2,20                                    | 8                    | 17,5 26,0    | 5,0               | 4,8                      | 1604 1604    | 165 190     | 1 1/2" DN40 | 1 1/4" DN32 |
| JAD (K) 5.36          | 3,60                                    | 8                    | 30,5 42,5    | 9,5               | 7,8                      | 1604 1604    | 202 208     | 2 1/2" DN65 | 1 1/2" DN40 |
| JAD (K) 6.50          | 5,70                                    | 8                    | 36,5 49,5    | 12,8              | 11,4                     | 1604 1604    | 215 218     | 2 1/2" DN65 | 2" DN50     |
| JAD (K) 6.50.10       | 4,80                                    | 10                   | 35,5 48,5    | 13,4              | 10,8                     | 1604 1604    | 215 218     | 2 1/2" DN65 | 2" DN50     |
| JAD (K) 14.163        | 24,70                                   | 8                    | 205,0        | 48,6              | 39,4                     | 2238         | 415         | DN150       | DN100       |
| JAD (K) 14.163.10     | 18,20                                   | 10                   | 178,0        | 50,0              | 47,4                     | 2238         | 415         | DN150       | DN100       |
| JAD (K) 26.480        | 77,4                                    | 8                    | 740,0        | 145,3             | 154,7                    | 3120         | 510         | DN200       | DN250       |
| JAD X(K) 2.11         | 1,15                                    | 8                    | 14,0 21,5    | 2,6               | 2,3                      | 1620 1620    | 191 270     | 1 1/2" DN40 | 1 1/2" DN40 |
| JAD X(K) 2.11.08.68   | 0,6                                     | 8                    | 13,0 19,0    | 1,2               | 1,2                      | 873 942      | 187 253     | 1 1/2" DN40 | 1 1/2" DN40 |
| JAD X(K) 3.18.08.75   | 1,17                                    | 8                    | 13,0 23,0    | 2,5               | 2,6                      | 1037 1037    | 211 287     | 2" DN50     | 2" DN50     |
| JAD X(K) 3.18         | 1,98                                    | 8                    | 20,0 30,0    | 5,0               | 4,0                      | 1630 1630    | 211 287     | 2" DN50     | 2" DN50     |
| JAD X(K) 5.38.08.71   | 2,32                                    | 8                    | 20,0 34,0    | 6,8               | 4,0                      | 1044 1044    | 256 327     | 2 1/2" DN65 | 2 1/2" DN65 |
| JAD X(K) 5.38         | 4,02                                    | 8                    | 34,0 48,0    | 11,2              | 6,6                      | 1646 1646    | 256 327     | 2 1/2" DN65 | 2 1/2" DN65 |
| JAD X(K) 6.50.08.72   | 3,10                                    | 8                    | 24,0 38,0    | 9,9               | 4,6                      | 1068 1068    | 265 351     | 3" DN80     | 3" DN80     |
| JAD X(K) 6.50         | 5,30                                    | 8                    | 43,0 57,0    | 13,6              | 11,2                     | 1653 1653    | 265 351     | 3" DN80     | 3" DN80     |
| JAD X(K) 6.50.10      | 5,10                                    | 10                   | 40,0 54,0    | 10,6              | 14,2                     | 1653 1653    | 265 351     | 3" DN80     | 3" DN80     |
| JAD X(K) 9.88.08.65   | 4,97                                    | 8                    | 41,0 56,0    | 20,8              | 6,6                      | 1050 1050    | 326 437     | 4" DN100    | 4" DN100    |
| JAD X(K) 9.88.08.85   | 6,20                                    | 8                    | 50,0 64,0    | 25,0              | 8,2                      | 1250 1250    | 326 437     | 4" DN100    | 4" DN100    |
| JAD X(K) 9.88         | 10,70                                   | 8                    | 75,0 90,0    | 29,0              | 16,0                     | 1676 1676    | 326 437     | 4" DN100    | 4" DN100    |
| JAD X(K) 9.88.10      | 8,30                                    | 10                   | 67,0 81,0    | 32,0              | 13,0                     | 1676 1676    | 326 437     | 4" DN100    | 4" DN100    |
| JAD X(K) 12.114.08.50 | 6,25                                    | 8                    | 55,2 74,1    | 29,0              | 8,0                      | 935 935      | 405 507     | 5" DN125    | 5" DN125    |
| JAD X(K) 12.114.08.60 | 6,46                                    | 8                    | 58,3 77,2    | 34,0              | 8,0                      | 1053 1053    | 405 507     | 5" DN125    | 5" DN125    |
| JAD X(K) 12.114.08.75 | 8,78                                    | 8                    | 71,6 90,4    | 38,5              | 10,0                     | 1203 1203    | 405 507     | 5" DN125    | 5" DN125    |
| JAD X(K) 12.114       | 18,40                                   | 8                    | 146,0 165,0  | 54,2              | 20,1                     | 1910 1910    | 405 507     | 5" DN125    | 5" DN125    |
| JAD X(K) 12.114.10    | 14,90                                   | 10                   | 134,0 153,0  | 55,0              | 19,3                     | 1910 1910    | 405 507     | 5" DN125    | 5" DN125    |
| JAD X(K) 17.217       | 58,40                                   | 8                    | 475,0        | 238,0             | 78,0                     | 2507         | 670         | DN150       | DN150       |
| JAD X(K) 17.217.10    | 39,00                                   | 10                   | 420,0        | 239,0             | 77,6                     | 2507         | 670         | DN150       | DN150       |

■ Threaded or to welded connections ■ Flange connections



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