

# Air Cooled Water Chiller

## DWAC SERIES

With Hermetic Compressors  
( 5 - 100 ) T.R.



**Developed Refrigeration & Air Conditioning  
Industries Equipment Co. [ DRIC ]**



**GENERAL DATA****AIR COOLED WATER CHILLER WITH HERMETIC COMPRESSOR**

| Model                         |           |                       | DWAC                                                                                                                                                                                                      |      | 60   | 95   | 120  | 150   | 180   | 240   | 300    | 370 |
|-------------------------------|-----------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------|------|-------|-------|-------|--------|-----|
| Water in/out                  | 60/ 50 °F | Cap. (T.R.)           | 6                                                                                                                                                                                                         | 9    | 11   | 13   | 17   | 23    | 27    | 34    |        |     |
|                               |           | Water Flow Rate (gpm) | 16                                                                                                                                                                                                        | 24   | 30   | 36   | 46   | 61    | 73    | 91    |        |     |
|                               | 55/ 45 °F | Cap. (T.R.)           | 5                                                                                                                                                                                                         | 8    | 10   | 12   | 15   | 20    | 25    | 31    |        |     |
|                               |           | Water Flow Rate (gpm) | 14                                                                                                                                                                                                        | 21   | 27   | 29   | 41   | 54    | 65    | 82    |        |     |
| Power Supply (volt /ph/hz)    |           |                       | 380V/3Ph/50Hz                                                                                                                                                                                             |      |      |      |      |       |       |       |        |     |
| Casing                        |           |                       | Heavy Gauage Galvanized Steel With Electrostatic Powder Paint Of Epoxy Coating                                                                                                                            |      |      |      |      |       |       |       |        |     |
| Compressor                    |           |                       | Hermetically Sealed Type                                                                                                                                                                                  |      |      |      |      |       |       |       |        |     |
| No. Of Compressors            |           |                       | 1                                                                                                                                                                                                         | 1    | 1    | 1    | 2    | 2     | 2     | 3     |        |     |
| Cooler                        |           |                       | Shell & Tube                                                                                                                                                                                              |      |      |      |      |       |       |       |        |     |
| No. of Coolers                |           |                       | 1                                                                                                                                                                                                         |      |      |      |      |       |       |       | 1 OR 2 |     |
| Refrigerant                   |           |                       | R - 22                                                                                                                                                                                                    |      |      |      |      |       |       |       |        |     |
| No. of Refrigeration Circuits |           |                       | 1                                                                                                                                                                                                         | 1    | 1    | 1    | 2    | 2     | 2     | 3     |        |     |
| Water Conn. Size (inch)       |           |                       | 1¼                                                                                                                                                                                                        |      |      |      |      | 2½    | 2½    | 3     |        |     |
| Condenser Coil                |           |                       | Copper Tubes, Aluminium Fins                                                                                                                                                                              |      |      |      |      |       |       |       |        |     |
| No. of Fins Per Inch          |           |                       | 12                                                                                                                                                                                                        |      |      |      |      |       |       |       |        |     |
| No. Of Rows                   |           |                       | 3                                                                                                                                                                                                         | 4    | 4    | 4    | 4    | 4     | 4     | 4     |        |     |
| Condenser Face Area (ft²)     |           |                       | 7.5                                                                                                                                                                                                       | 15   | 15   | 18   | 20   | 30    | 39    | 45    |        |     |
| Condenser Fans                |           |                       | Axial Propeller                                                                                                                                                                                           |      |      |      |      |       |       |       |        |     |
| Air Flow Rate (cfm)           |           |                       | 4500                                                                                                                                                                                                      | 5600 | 6300 | 8400 | 9000 | 13500 | 18000 | 18000 |        |     |
| Power Cons(Comp&Fans) (kw)    |           |                       | 6                                                                                                                                                                                                         | 8.3  | 11.3 | 12.2 | 18.3 | 22.3  | 25.5  | 34.1  |        |     |
| Operating Weight (kg)         |           |                       | 258                                                                                                                                                                                                       | 310  | 368  | 420  | 450  | 752   | 850   | 1074  |        |     |
| Dimensions                    |           | Length (cm)           | 120                                                                                                                                                                                                       | 200  | 200  | 210  | 210  | 235   | 250   | 250   |        |     |
|                               |           | Width (cm)            | 90                                                                                                                                                                                                        | 110  | 110  | 110  | 110  | 110   | 170   | 170   |        |     |
|                               |           | Height (cm)           | 160                                                                                                                                                                                                       | 180  | 180  | 180  | 180  | 180   | 190   | 190   |        |     |
| Notes :                       |           |                       | 1. Rating based on :<br>- Ambient air temp. : 95 °F<br>- Chilled water range ( in / out ) temp. : 10 °F<br>2. Available upon request :<br>- Refrigerant : R407c & R134a<br>- Stainless steel shell & tube |      |      |      |      |       |       |       |        |     |

Models and specifications are subject to change without prior notice



## GENERAL DATA

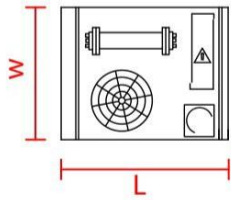
### AIR COOLED WATER CHILLER WITH HERMETIC COMPRESSOR

| Model DWAC                    |           |                       | 450                                                                                                                                                                                                       | 500   | 600   | 730   | 900   | 1000  | 1100  | 1200  |
|-------------------------------|-----------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|
| Water in/out                  | 60/50 °F  | Cap. (T.R.)           | 41                                                                                                                                                                                                        | 46    | 55    | 68    | 81    | 92    | 101   | 108   |
|                               |           | Water Flow Rate (gpm) | 110                                                                                                                                                                                                       | 122   | 147   | 182   | 216   | 249   | 268   | 287   |
|                               | 55/ 45 °F | Cap. (T.R.)           | 37                                                                                                                                                                                                        | 41    | 49    | 61    | 72    | 82    | 90    | 97    |
|                               |           | Water Flow Rate (gpm) | 99                                                                                                                                                                                                        | 109   | 132   | 162   | 192   | 217   | 239   | 259   |
| Power Supply (volt /ph/hz)    |           |                       | 380V/3Ph/50Hz                                                                                                                                                                                             |       |       |       |       |       |       |       |
| Casing                        |           |                       | Heavy Gauage Galvanized Steel With Electrostatic Powder Paint Of Epoxy Coating                                                                                                                            |       |       |       |       |       |       |       |
| Compressor                    |           |                       | Hermetically Sealed Type                                                                                                                                                                                  |       |       |       |       |       |       |       |
| No. Of Compressors            |           |                       | 3                                                                                                                                                                                                         | 4     | 4     | 6     | 6     | 8     | 8     | 8     |
| Cooler                        |           |                       | Shell & Tube                                                                                                                                                                                              |       |       |       |       |       |       |       |
| No. of Coolers                |           |                       | 1 OR 2                                                                                                                                                                                                    |       |       | 2     |       |       |       |       |
| Refrigerant                   |           |                       | R - 22                                                                                                                                                                                                    |       |       |       |       |       |       |       |
| No. of Refrigeration Circuits |           |                       | 3                                                                                                                                                                                                         | 4     | 4     | 6     | 6     | 8     | 8     | 8     |
| Water Conn. Size (inch)       |           |                       | 4                                                                                                                                                                                                         | 4     | 4     | 4     | 6     | 6     | 8     | 8     |
| Condenser Coil                |           |                       | Copper Tubes, Aluminium Fins                                                                                                                                                                              |       |       |       |       |       |       |       |
| No. of Fins Per Inch          |           |                       | 12                                                                                                                                                                                                        |       |       |       |       |       |       |       |
| No. Of Rows                   |           |                       | 4                                                                                                                                                                                                         |       |       |       |       |       |       |       |
| Condenser Face Area (ft²)     |           |                       | 54                                                                                                                                                                                                        | 60    | 74    | 91    | 107   | 127   | 142   | 142   |
| Condenser Fans                |           |                       | Axial Propeller                                                                                                                                                                                           |       |       |       |       |       |       |       |
| Air Flow Rate (cfm)           |           |                       | 25000                                                                                                                                                                                                     | 25000 | 27000 | 36000 | 45000 | 45000 | 54000 | 54000 |
| Power Cons(Comp&Fans) (kw)    |           |                       | 38.7                                                                                                                                                                                                      | 45.3  | 53.4  | 66.9  | 79.7  | 90    | 97.3  | 107.1 |
| Operating Weight (kg)         |           |                       | 1052                                                                                                                                                                                                      | 1434  | 1498  | 2000  | 2600  | 2600  | 2750  | 2750  |
| Dimensions                    |           | Length (cm)           | 350                                                                                                                                                                                                       | 350   | 350   | 350   | 500   | 500   | 560   | 560   |
|                               |           | Width (cm)            | 175                                                                                                                                                                                                       | 175   | 180   | 180   | 180   | 180   | 180   | 180   |
|                               |           | Height (cm)           | 185                                                                                                                                                                                                       | 210   | 225   | 225   | 245   | 245   | 245   | 245   |
| Notes :                       |           |                       | 1. Rating based on :<br>- Ambient air temp. : 95 °F<br>- Chilled water range ( in / out ) temp. : 10 °F<br>2. Available upon request :<br>- Refrigerant : R407c & R134a<br>- Stainless steel shell & tube |       |       |       |       |       |       |       |

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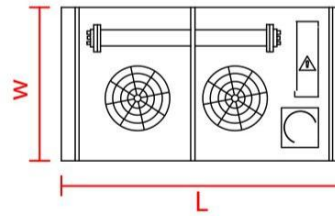
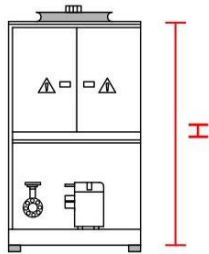
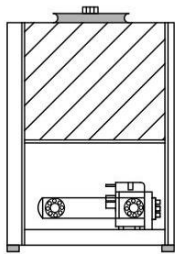






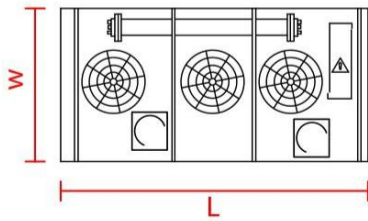
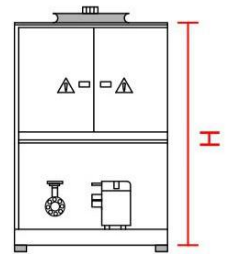
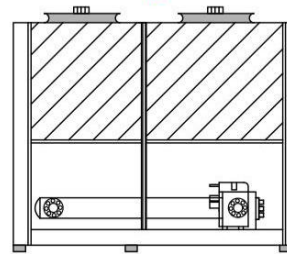
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|---------|-----|----|-----|
| DWAC 60 | 120 | 95 | 160 |

All dimensions are in cm



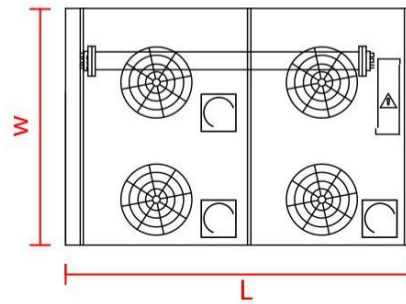
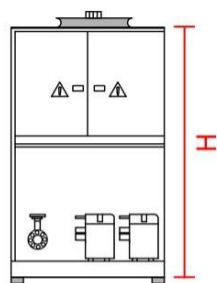
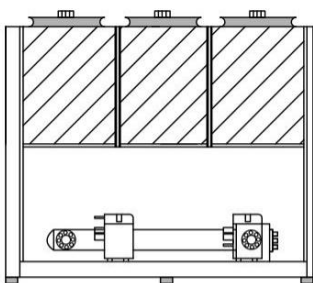
| MODEL    | L   | W   | H   |
|----------|-----|-----|-----|
| DWAC95   | 200 | 110 | 180 |
| DWAC 120 | 200 | 110 | 180 |
| DWAC150  | 210 | 110 | 180 |
| DWAC 190 | 210 | 110 | 180 |

All dimensions are in cm



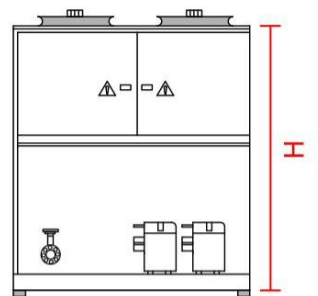
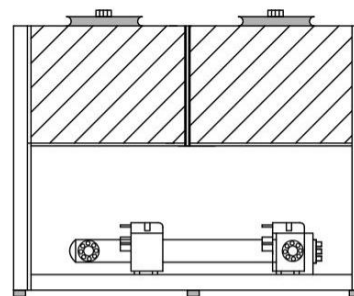
| MODEL    | L   | W   | H   |
|----------|-----|-----|-----|
| DWAC 240 | 235 | 110 | 180 |

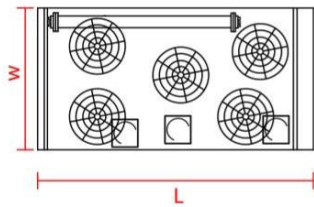
All dimensions are in cm



| MODEL    | L   | W   | H   |
|----------|-----|-----|-----|
| DWAC300  | 250 | 170 | 190 |
| DWAC 370 | 250 | 170 | 190 |

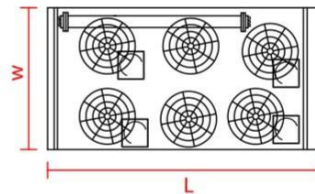
All dimensions are in cm





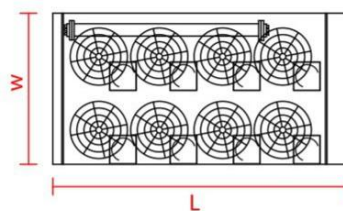
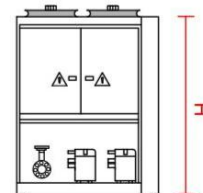
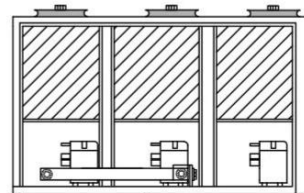
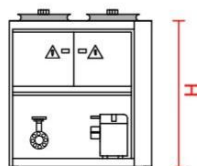
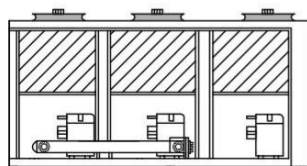
| MODEL   | L   | W   | H   |
|---------|-----|-----|-----|
| DWAC450 | 350 | 175 | 185 |

All dimensions are in cm



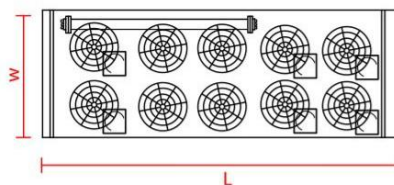
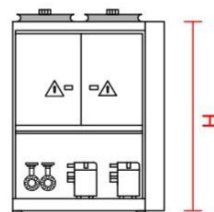
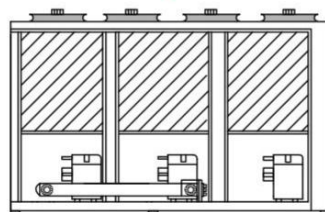
| MODEL   | L   | W   | H   |
|---------|-----|-----|-----|
| DWAC500 | 350 | 175 | 210 |
| DWAC600 | 350 | 180 | 225 |

All dimensions are in cm



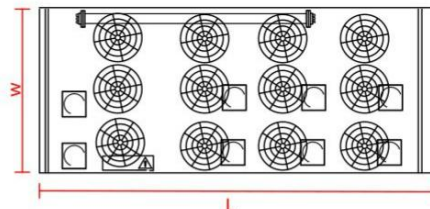
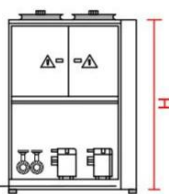
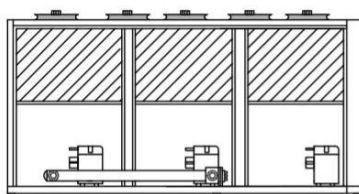
| MODEL   | L   | W   | H   |
|---------|-----|-----|-----|
| DWAC730 | 350 | 180 | 225 |

All dimensions are in cm



| MODEL   | L   | W   | H   |
|---------|-----|-----|-----|
| DWAC900 | 500 | 180 | 245 |

All dimensions are in cm



| MODEL    | L   | W   | H   |
|----------|-----|-----|-----|
| DWAC1000 | 500 | 180 | 245 |
| DWAC1100 | 560 | 180 | 245 |
| DWAC1200 | 560 | 180 | 245 |

All dimensions are in cm

