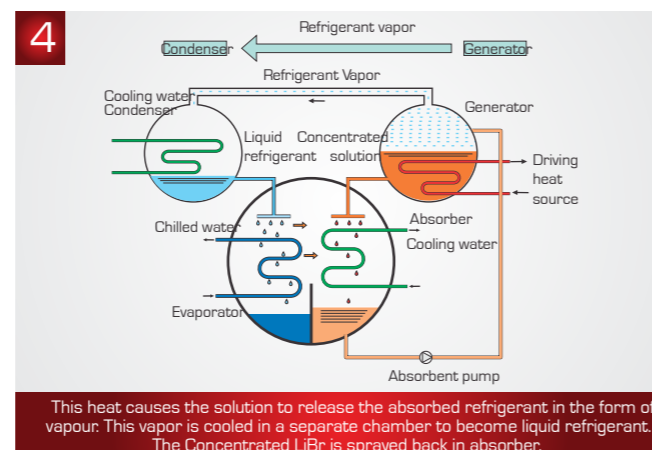
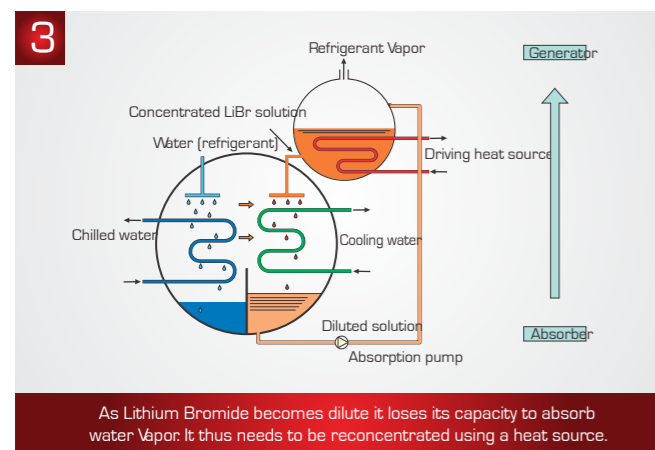
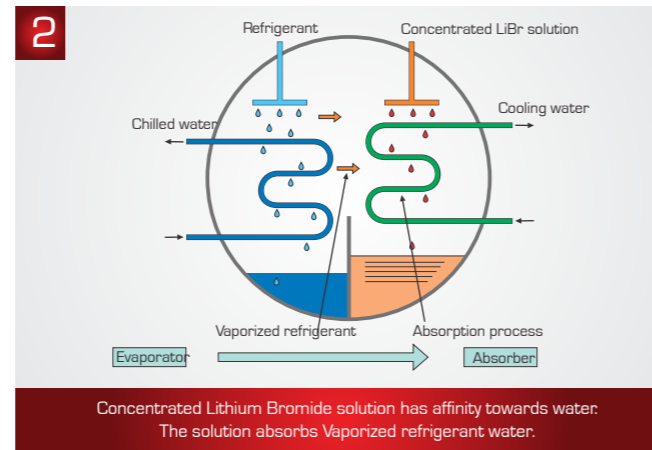
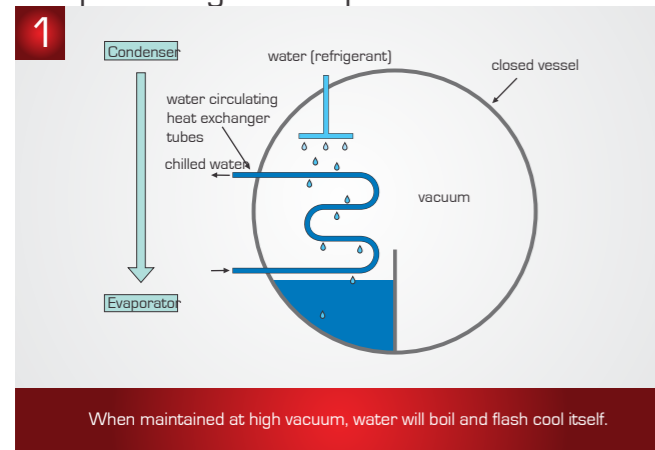


# Specification Sheet

| MODEL NUMBER          | UNITS                         | 2V 2K C            | 2V 2L C                              | 2V 2M C | 2V 2N C | 2V 3K C   | 2V 3L C | 2V 3M C | 2V 4K C    | 2V 4L C | 2V 4M C | 2V 5K C    | 2V 5L C | 2V 5M C | 2V 5N C    | 2V 6K C | 2V 6L C | 2V 7K C    | 2V 7L C | 2V 7M C |             |  |  |             |  |  |      |  |  |      |  |  |      |  |  |
|-----------------------|-------------------------------|--------------------|--------------------------------------|---------|---------|-----------|---------|---------|------------|---------|---------|------------|---------|---------|------------|---------|---------|------------|---------|---------|-------------|--|--|-------------|--|--|------|--|--|------|--|--|------|--|--|
| Cooling Capacity      | TR                            | 120                | 143                                  | 182     | 217     | 269       | 304     | 360     | 397        | 451     | 502     | 550        | 610     | 717     | 802        | 904     | 1010    | 1180       | 1307    | 1439    |             |  |  |             |  |  |      |  |  |      |  |  |      |  |  |
| Chilled Water Circuit | Flow rate                     | m <sup>3</sup> /hr | 72.4                                 | 86.3    | 109.8   | 130.9     | 162.3   | 183.4   | 217.2      | 239.5   | 272.0   | 302.8      | 331.8   | 368.0   | 432.5      | 483.8   | 545.3   | 609.2      | 711.8   | 788.4   | 868.0       |  |  |             |  |  |      |  |  |      |  |  |      |  |  |
|                       | Pressure loss                 | m LC               | 1.2                                  | 1.4     | 3.7     | 4.4       | 4.1     | 4.5     | 7.3        | 6.3     | 6.4     | 6.9        | 6.7     | 6.8     | 5.2        | 5.3     | 9.8     | 10.0       | 4.3     | 4.6     | 4.9         |  |  |             |  |  |      |  |  |      |  |  |      |  |  |
|                       | Connection Diameter           | mm NB              | 125                                  |         |         | 150       |         |         | 200        |         |         | 200        |         |         | 250        |         |         | 350        |         |         |             |  |  |             |  |  |      |  |  |      |  |  |      |  |  |
| Cooling Water Circuit | Flow rate                     | m <sup>3</sup> /hr | 120                                  | 143     | 182     | 217       | 269     | 304     | 360        | 397     | 451     | 502        | 550     | 610     | 717        | 802     | 904     | 1010       | 1180    | 1307    | 1439        |  |  |             |  |  |      |  |  |      |  |  |      |  |  |
|                       | Pressure loss                 | m LC               | 2.3                                  | 2.5     | 6.4     | 6.7       | 6.2     | 6.4     | 5          | 4.1     | 4.4     | 4.7        | 4.1     | 4.3     | 5.5        | 5.7     | 7.7     | 8          | 7.2     | 7.8     | 8.4         |  |  |             |  |  |      |  |  |      |  |  |      |  |  |
|                       | Connection Diameter           | mm NB              | 150                                  |         |         | 200       |         |         | 250        |         |         | 300        |         |         | 350        |         |         | 400        |         |         |             |  |  |             |  |  |      |  |  |      |  |  |      |  |  |
| Fuel Circuit          | Oil Consumption               | kg/hr              | 27.5                                 | 32.6    | 41.6    | 49.4      | 61.2    | 68.9    | 81.9       | 90.7    | 102.7   | 114.3      | 125.3   | 139.0   | 163.0      | 182.2   | 205.7   | 229.6      | 268.9   | 298.5   | 328.6       |  |  |             |  |  |      |  |  |      |  |  |      |  |  |
|                       | Gas Consumption               | kW                 | 350.5                                | 415.3   | 530.7   | 629.1     | 779.9   | 878.6   | 1043.7     | 1155.9  | 1308.8  | 1456.7     | 1596.8  | 1771.4  | 2077.4     | 2322.0  | 2621.5  | 2926.1     | 3427.0  | 3804.3  | 4187.7      |  |  |             |  |  |      |  |  |      |  |  |      |  |  |
|                       | Exhaust duct Diameter         | mm NB              | 150                                  |         |         | 200       |         |         | 250        |         |         | 300        |         |         | 350        |         |         | 400        |         |         | 500         |  |  |             |  |  |      |  |  |      |  |  |      |  |  |
| Overall Dimensions    | Length                        | mm                 | 2905                                 |         | 3925    |           | 3985    |         | 4590       |         | 4700    |            | 4805    |         | 5855       |         | 7340    |            | 7475    |         |             |  |  |             |  |  |      |  |  |      |  |  |      |  |  |
|                       | Width                         | mm                 | 2640                                 |         | 2545    |           | 2760    |         | 2795       |         | 3065    |            | 3295    |         | 3395       |         | 3585    |            | 4255    |         |             |  |  |             |  |  |      |  |  |      |  |  |      |  |  |
|                       | Height                        | mm                 | 2785                                 |         | 2785    |           | 2890    |         | 2890       |         | 3150    |            | 3345    |         | 3440       |         | 3530    |            | 3900    |         |             |  |  |             |  |  |      |  |  |      |  |  |      |  |  |
| Weight                | Maximum Shipping              | x 1000 kg          | 8.5                                  | 8.6     | 10.4    | 10.8      | 12.1    | 12.4    | 14.0       | 16.9    | 17.4    | 17.7       | 19.9    | 20.4    | 24.9       | 26.0    | 31.0    | 31.9       | 42.7    | 43.7    | 44.6        |  |  |             |  |  |      |  |  |      |  |  |      |  |  |
|                       | Operating                     | x 1000 kg          | 9.1                                  | 9.3     | 11.2    | 11.6      | 13.2    | 13.6    | 15.3       | 18.7    | 19.3    | 19.6       | 22.3    | 22.9    | 27.9       | 29.0    | 34.6    | 35.7       | 48.7    | 49.9    | 51.0        |  |  |             |  |  |      |  |  |      |  |  |      |  |  |
| Clearance             | Tube Cleaning / Removal       | mm                 | 3500                                 |         |         | 4100      |         |         | 4200       |         |         | 4200       |         |         | 4300       |         |         | 5300       |         |         | 5340        |  |  | 6800        |  |  |      |  |  |      |  |  |      |  |  |
| Electric Supply       | Absorbent Pump Motor Rating   | kW (A)             | 2.2 (6.0)                            |         |         | 3.0 (8.0) |         |         | 3.7 (11.0) |         |         | 5.5 (14.0) |         |         | 6.6 (17.0) |         |         | 7.5 (20.0) |         |         | 9.0 (27.0)  |  |  |             |  |  |      |  |  |      |  |  |      |  |  |
|                       | Refrigerant Pump Motor Rating | kW (A)             | 0.3 (1.4)                            |         |         |           |         |         |            |         |         |            |         |         |            |         |         |            |         |         |             |  |  |             |  |  |      |  |  |      |  |  |      |  |  |
|                       | Vacuum Pump Motor Rating      | kW (A)             | 0.75 (1.8)                           |         |         |           |         |         |            |         |         |            |         |         |            |         |         |            |         |         |             |  |  |             |  |  |      |  |  |      |  |  |      |  |  |
|                       | Burner Rating                 | kW (A)             | 2.2 (5)                              |         |         | 3.0 (6.1) |         |         | 4.0 (8.0)  |         |         | 4.0 (8.7)  |         |         | 7.5 (14.7) |         |         | 7.5 (15.2) |         |         | 11.0 (22.8) |  |  | 15.0 (29.7) |  |  |      |  |  |      |  |  |      |  |  |
|                       | Total Electric Input          | kVA                | 11.2                                 |         |         | 13.4      |         |         | 14.8       |         |         | 15.3       |         |         | 17.5       |         |         | 23.9       |         |         | 26.1        |  |  | 26.4        |  |  | 36.7 |  |  | 41.6 |  |  | 46.6 |  |  |
|                       | Power Supply                  |                    | 415 V (±10%), 50 Hz (±5%), 3 Phase+N |         |         |           |         |         |            |         |         |            |         |         |            |         |         |            |         |         |             |  |  |             |  |  |      |  |  |      |  |  |      |  |  |

Notes: 1) Model Nos. : 2V XX C Direct fired Double effect Absorption Chiller 2) Chilled water inlet/ outlet temperature = 12°C  
 3) Cooling water inlet/ outlet temperature = 32/ 37°C 4) G.C.V. for Oil is 10960 kcal/kg 5) Minimum Cooling water inlet temperature is 10°C (For GD10A-10C CU - 20°C)  
 6) Ambient condition shall be between 5 to 45°C 7) Maximum Allowable pressure in chilled/ cooling water system = 8 kg/cm<sup>2</sup>(g) Control panel Electric Input = 1kW  
 9) All Water Nozzle connections to suit ASME B16.5 Class 150 10) Technical specification is based on JIS B 8622  
 11) Please contact Thermax representative/ office for lower cooling water flow 2) Please contact Thermax representative/ office for customized specifications

## Operating Principle



## Cycle Diagram

