

# Multi-effect Water Distillation Machine



The Multi-effect distiller water machine is used to produce the WFI water in the pharmaceutical field.

### - Working Principle -

Adopts rising film and multi-diversion form to evaporate. The industrial steam enters the evaporate shell pass through valves and interchange heat with the purified water rising film in tube pass. The purified water after heat exchange becomes vapour, then impure heat source will be removed from the vapour through diversion separation device in the machine to produce the secondary steam. The pure steam

after steam-water separation will become distilled water after being condensated as heating source in II effect. Then the distilled water will enter into the condenser under the pressure differential action and then enter the storage tank through the pipe for storage. The concentrated water without evaporation and separation shall enter the next effect for re-evaporation through concentrated water inlet.

### - Technology Data Specification -

| Model                               | LD500<br>-6       | LD750<br>-6        | LD1000<br>-6       | LD1500<br>-6       | LD2000<br>-6       | LD3000<br>-6       | LD4000<br>-6       | LD5000<br>-6       | LD6000<br>-6       | LD8000<br>-6       | LD10000<br>-6      |
|-------------------------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Capacity(L/h)                       | ≥500              | ≥750               | ≥1000              | ≥1500              | ≥2000              | ≥3000              | ≥4000              | ≥5000              | ≥6000              | ≥8000              | ≥10000             |
| Industrial steam consumption (Kg/h) | ≤120              | ≤180               | ≤240               | ≤360               | ≤480               | ≤720               | ≤960               | ≤1200              | ≤1400              | ≤1920              | ≤2400              |
| Feed water consumption(L/h)         | 550               | 825                | 1100               | 1650               | 2200               | 3300               | 4400               | 5500               | 6600               | 8800               | 11000              |
| Motor power(KW)                     | 0.75              | 0.75               | 1.1                | 1.1                | 2.2                | 2.2                | 2.2                | 4.0                | 4.0                | 4.0                | 4.0                |
| Dimension<br>L*W*H (mm)             | 2190*950<br>*2700 | 2360*1000<br>*2850 | 2400*1140<br>*2900 | 2800*1250<br>*3000 | 2950*1250<br>*3000 | 3600*1420<br>*3500 | 3850*1480<br>*3600 | 4160*1520<br>*3600 | 4350*1700<br>*3800 | 4750*1850<br>*4000 | 5200*1850<br>*4000 |

\*Above model just for reference, we can do according to client's URS \*