

I-CHILLER™

BSE I-CHILLER™ Family Oil-Free VFD Centrifugal Modular Unit Chiller/Heat are your smart choices now and in the future. The chiller is in the design of 250kw(71RT)-4200kw(1200RT) and uniform measure of 0.89m(W)x1.2m(L)x1.8m(H).

I-CHILLER™ Modular Units is oil-free, frequency conversion centrifugal chillers/heat pumps in modular units that are applied with all digital oil-free centrifugal compressors. Combined with the high-efficient plate exchanger and the powerful PAC controller, it allows a 40% improvement of the annual operational efficiency than that of the traditional chillers. The single unit only occupies a footprint of 1m² with a tiny height of 1.8m and a weight of 1 ton. They are currently the chillers that are the smallest in volume, the lightest in weight, and the least needs in refrigerant charge in the world when outputting the same cold energy.

BSE I-CHILLER™ Family Oil-Free Variable Centrifugal Modular Unit Chillers/Heat Pumps have the following characteristics :

- i) Small size and light weight
- ii) Low noise and small vibration
- iii) Oil-Free VFD centrifugal compressor
- iv) Intelligent alarming and failures handing
- v) Tiny start-up current with no strike to the electronic grids
- vi) R134a refrigerants, no harm to the ozone
- vii) Super high IPLV and COP
- viii) Oil-Free, an absolute solution to the oil-return problem and a great improvement to the reduction of the cooling capacity



I-CHILLER™

Versatility - small in size and foot print, which helps to reduce 50% - 100% investment its chiller plant.

Reliability - needs no back-ups. The breakdown of a single unit does not affect the operation of other units.

No Vibration - free of the low frequency vibration of the traditional chillers, which does not have the noise interference to the staff living and working around.

Intelligence - applied with the powerful PAC controllers, which are able to connect the building group control system completely and realize the remote control.

Economy - has an annual IPLV of over 9.0. Changing frequency jointly with more than one compressor helps to save more energy and over 40% of the electricity cost.

Expandability - in the design of the modular units, which enables the increase and decrease of the outputting cooling capacity to meet the operational requirements at different stages.

Free of Maintenance – it is oil-free, which helps to reduce the operational cost without the maintenance of the oil

High Energy Efficiency – I Chiller Modular Units is applied with oil-free variable centrifugal compressors, the energy efficiency of which reaches the national first-level and is able to sustain for a long time without reduction.

Environment Friendly – I Chiller Modular Units is applied with R134a refrigerant.

Low Noise – when I Chiller Modular Units is operating, the sound volume is low to 55dB, and the audio band is rather high, which is more helpful to erase the noise.

Easy Installation – Thanks to its characteristics like a tiny volume, a small footprint, and a light weight, I-CHILLER Modular Units is able to be transported to the facilitate room by crossing a standard industrial door and an elevator easily.



I-Chiller Reference Projects



Holiday Inn Shanghai Pudong



Jincheng International Hotel



Crown Grand Hotel



Shanghai Jianke Building