CHEMGASOIL
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PRODUCT CATALOG

Air-source heat pumps

Screw heat pumps 100–600 kW, heating down to −35 °C outdoor temperature.



CHEMGASOIL INDUSTRIAL SOLUTIONS (HONGKONG) LIMITED
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Air-source heat pumps

Screw-type ultra-low ambient air-source heat pumps for heating, cooling and hot water. Two-stage screw compression with vapour injection keeps the unit working stably at outdoor temperatures down to −35 °C without an electric back-up heater. One unit can replace a hot-water boiler of about 0.8 t/h and heat a building of 2,000–10,000 m². Hot water 35–70 °C (up to 80 °C), chilled water 5–15 °C in summer.

Key specifications

Capacity range	100–600 kW (heating)
Outdoor temperature, heating	−35 … +35 °C
Outdoor temperature, cooling	+21 … +45 °C
Hot water outlet	35–70 °C, max 80 °C
Chilled water outlet	5–15 °C
Refrigerants	R134a, R22, R507
Compressor	Semi-hermetic twin-screw, two-stage with vapour injection
Capacity control	0 / 50 / 75 / 100 %
Water-side heat exchanger	Shell-and-tube, 1.0 MPa
Power supply	3 ph, 380 V, 50 Hz

Features

- Stable heating down to −35 °C outdoor temperature
- No electric auxiliary heater needed at low ambient
- High seasonal efficiency: IPLV(H) about 24 % above the national grade-1 level, COP about 27 % above the limit value
- Fast smart defrost
- Cloud monitoring and mobile app, remote diagnostics
- Full protection: phase, over-current, motor temperature, high/low pressure, water flow
- One unit for heating, cooling and hot water; works with ice and heat storage

Model range

Model range (R134a series)

Model	Heating, floor heating, kW	Heating, fan coil, kW	Heating, radiators, kW	Cooling, kW	Fan airflow, m³/h	Water connection
ASHP-100	97	100	104	160	80 000	DN65
ASHP-200	195	200	208	310	120 000	DN100
ASHP-240	234	240	250	380	120 000	DN100
ASHP-280	274	280	290	440	160 000	DN125
ASHP-330	313	330	350	520	160 000	DN125

Typical data. Final selection and parameters are confirmed in the quotation for your project. Equipment is made by our partner factories in China.

Applications

District and building heating instead of coal, gas or oil boilers; schools, hospitals, offices, hotels, residential complexes; industrial hot water and process heating; cold-climate regions of Central Asia, Russia and Northern China.

Photos



Screw air-source heat pump unit

HOW TO ORDER

Send us your requirements — duty, quantity and delivery country — and we will reply with a technical and commercial offer.

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