

# PRESSURE VESSELS

SUCTION ACCUMULATOR

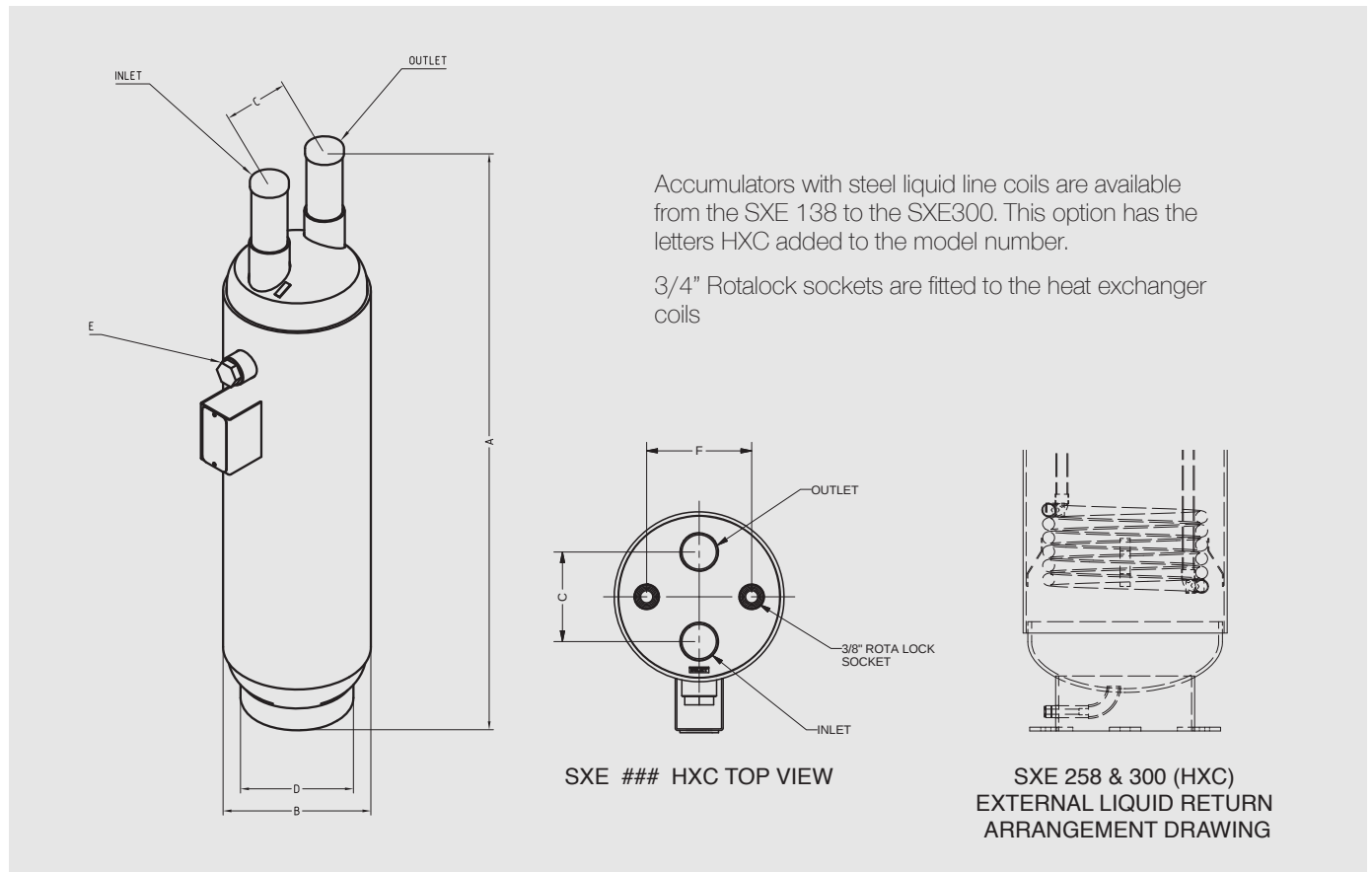
BETTER PROTECTION  
RUST RESISTANT PAINT TREATMENT

Suction  
Accumulator



## Technical Data

- Large internal volume to ensure gas / liquid separation and large liquid holding capacity
- Positive oil return system via "U" tube (up to SXE 218)
- Manufactured in Australia to AS-1210 pressure vessel code
- Available with steel liquid line heat exchanger coil for increased vaporisation of liquid
- Three stage epoxy paint treatment used



| Model Number  | Liquid Storage (Standard) Litres | Liquid Storage (HXC) Litres | Inlet / Outlet Sizes | Internal "U" TUBE fitted | A Height | B Diameter outside Ø | C Connecting pipe centres | D Stand ring Ø | E Inspection socket | F Heat Exchanger pipe centres |
|---------------|----------------------------------|-----------------------------|----------------------|--------------------------|----------|----------------------|---------------------------|----------------|---------------------|-------------------------------|
| SXE 118       | 4.0                              | -                           | 1-1/8"               | YES                      | 435mm    | 168mm                | 70mm                      | 114mm          | 3/8"BSP             | -                             |
| SXE 138 (HXC) | 10.0                             | 8.5                         | 1-3/8"               | YES                      | 540mm    | 220mm                | 116mm                     | 168mm          | 1"BSP               | 136mm                         |
| SXE 158 (HXC) | 13.0                             | 11.5                        | 1-5/8"               | YES                      | 641mm    | 220mm                | 116mm                     | 168mm          | 1"BSP               | 136mm                         |
| SXE 218 (HXC) | 14.0                             | 12.5                        | 2-1/8"               | YES                      | 860mm    | 220mm                | 116mm                     | 168mm          | 1"BSP               | 136mm                         |
| SXE 258 (HXC) | 33.0                             | 30                          | 2-5/8"               | NO                       | 1197mm   | 324mm                | 150mm                     | 220mm          | 1"BSP               | 200mm                         |
| SXE 300 (HXC) | 80.0                             | 77.0                        | 3"                   | NO                       | 1409mm   | 425mm                | 230mm                     | 324mm          | 1-1/4"BSP           | 231mm                         |

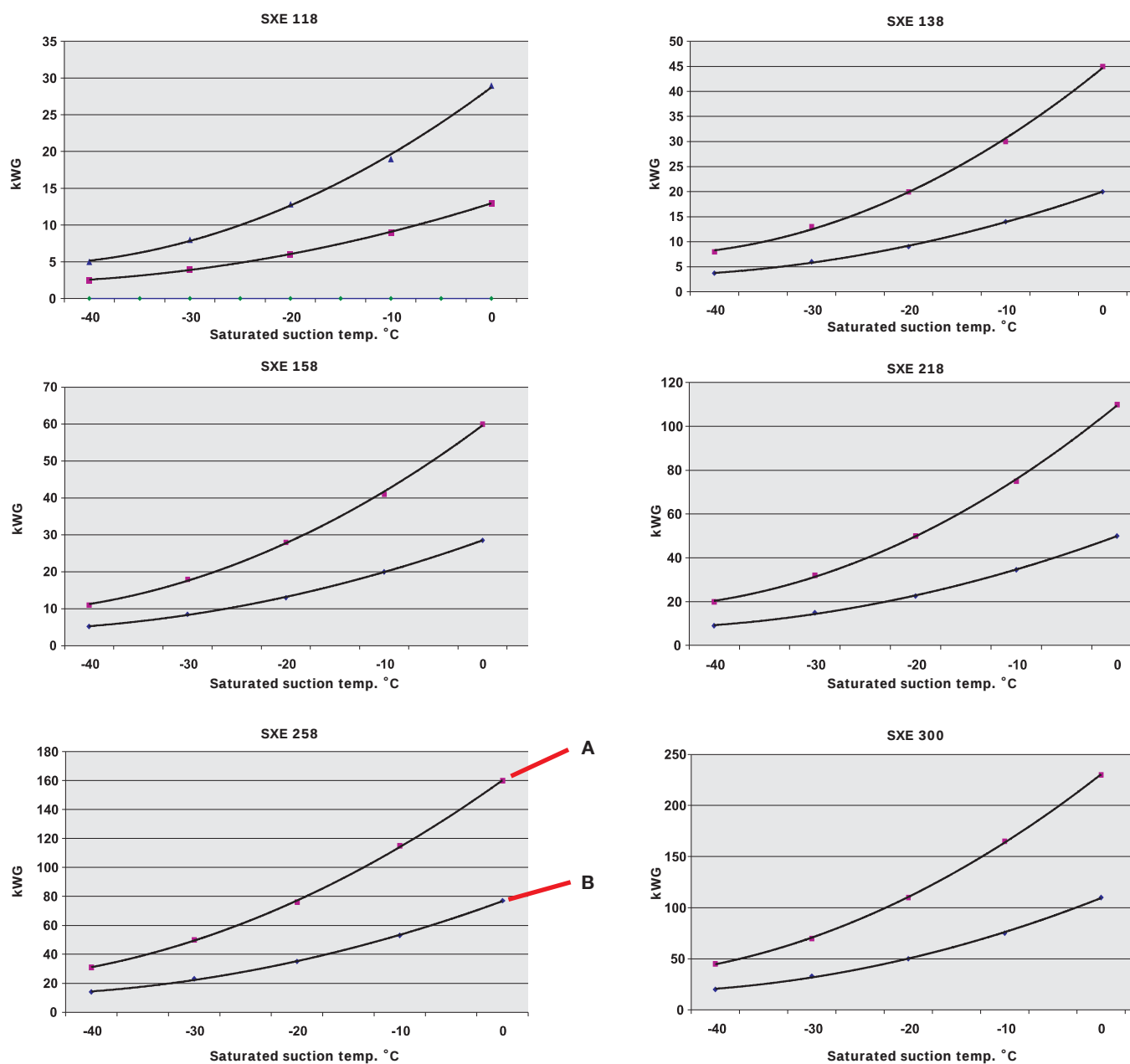
NOTE: Metal clad insulated accumulators available on request.

Internal "U" tubes allow oil & liquid refrigerant to return to the compressor at a controlled rate to prevent liquid slugging during normal operation. The compressor should not be shut down when the accumulator is still holding liquid in its reservoir, or compressor can be damaged on start up, as liquid will enter the "U" tube during the off cycle.

Accumulators without "U" tube require a separate external liquid/oil return line to be fitted to the 3/8" valve on the bottom of the vessel to the suction return line.

NOTE: Careful consideration should be made to ensure oil/liquid cannot drain into the system during off-cycle.

## Performance Data



To select a suction accumulator, plot the operating point on the graph so it falls between the upper and lower limit lines.

(A) Upper Limit line: Selections above the line may experience higher than normal gas noise levels

(B) Lower Limit line: Selections below the line may experience poor oil return

Note: Minimum compressor capacity must be considered when using compressors fitted with capacity control devices, or when using multiple compressor systems.

**Capacities stated are suitable for R404A & R507A (R22 X 0.93 = R404A) (R134a X 1.9 = R404A)**

## Correction Factors For Liquid Refrigerant Temperature

| Liquid Line Temperature | -10°C | 0°C | 10°C | 20°C | 30°C | 40°C | 50°C |
|-------------------------|-------|-----|------|------|------|------|------|
| Factor                  | 0.55  | 0.6 | 0.66 | 0.75 | 0.85 | 0    | 1.23 |

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Note: The ISO standard only applies to the BITZER NSW and VIC branches