SCREW COMPRESSOR S71E - 34 Refrigerating capacity and power consumption Volume ratio 3.4

STALOMIZER

Capacity and power consumption

The capacity curves refer to a process with subcooling of the liquid to the intermediate temperature (Stalomizer-temperature) and with no superheating of the suction gas, For STALOMIZER-system with heat exchanger the capacity should be reduced 2%, Correction for superheating is to be made according to manual sheet 430-E-1, For operating conditions outside shaded area select higher or lower built-in volume ratio for best efficiency.

The capacity data are based on measurements on seriesproduced machines.

Condenser performance

For condenser performance see manual sheet 4840-E-1.

Limitations

There are certain limitations in the operation range of the compressor. At evaporating temperatures lower than those marked with small cross lines on the curves, a special low temperature arrangement must be used. For combination of condensing and evaporating temperatures outside the curves, ask for further information.

Refrigerant: NH3 Intermediate temperature C +10 t₁ = 20% t1 = 30°C 50Hz 60Hz t1 = 40°C 2950 r/m 3540 r/m t₁ = 45°C Refrigerating capacity 3000 2500 2000 2000 1500 1500 1000 1000 temperature +20% 800 +30% 700 +40℃ 600 500 400 +45℃ 500 400 300 250 300 Evaporating -50 temperature T 150 200 200 +20℃ 250 300 250 +40% +45℃ 300 400 Condensing temperature 400 500 600 500 Compressor input