

g.C): tabulate pr
 g.C): tabulate Tre
 compute discharge line loss (K): c

und

Low stage
 useful suction superheat (K):
 non useful superheat (K):
 interstage line loss (K):
 external interstage load (kW):
 Side load
 wanted capacity (kW):
 suction superheat (K):
 liquid subcooling (K):
 suction line loss (K):

open closed injection cascade
 number of interstage coolers

screw compressor type: SAB 202 S female drive
 internal volume ratio: optimal
 refrigerant designation: R 717
 no. of compressor(s): 1.00
 load percentage: 100.0 %
 drive shaft speed: 2960. RPM (list)
 cooling capacity: 1302.4 kW
 power consumption: 384.4 kW
 heating capacity: 1686.8 kW
 capacity/power ratio: 3.39
 evaporating temperature: -10.0 deg.C
 condensing temperature: 40.0 deg.C
 suction line loss: 0.5 K
 discharge line loss: 0.0 K
 liquid subcooling: 38.5 K

NB: motor size corrected - too small for computed power cons.
 Oil cooler notes: none

Oil cooler selection log _____
 Compressor selection log _____

HS Comp. LS Comp. Evaporator Condenser Subcooler

HS Comp. Evaporator Condenser Subcooler Disch. desuperh.

-20.0

tabulate

pr

40.0

tabulate

Tre

0.5 compute

discharge line loss (K): 0.0

0.5

Low stage

useful suction superheat (K)

0.0

non useful superheat (K)

2.0

interstage line loss (K)

external interstage load (kW)

Side load

0.0

wanted capacity (kW)

0.0

suction superheat (K)

0.0

liquid subcooling (K)

0.0

suction line loss (K)

open closed injection cascade

0.0 number of interstage coolers

screw compressor type: SAB 202 S female drive
 internal volume ratio: optimal
 refrigerant designation: R 717

no. of compressor(s): 1.00
 load percentage: 100.0 %
 drive shaft speed: 2960. RPM (list)

cooling capacity: 875.0 kW
 power consumption: 345.7 kW
 heating capacity: 1220.8 kW
 capacity/power ratio: 2.53

evaporating temperature: -20.0 deg.C
 condensing temperature: 40.0 deg.C
 suction line loss: 0.5 K
 discharge line loss: 0.0 K
 liquid subcooling: 48.2 K

NB: motor size corrected - too small for computed power cons
 Oil cooler notes: none



Op. limits

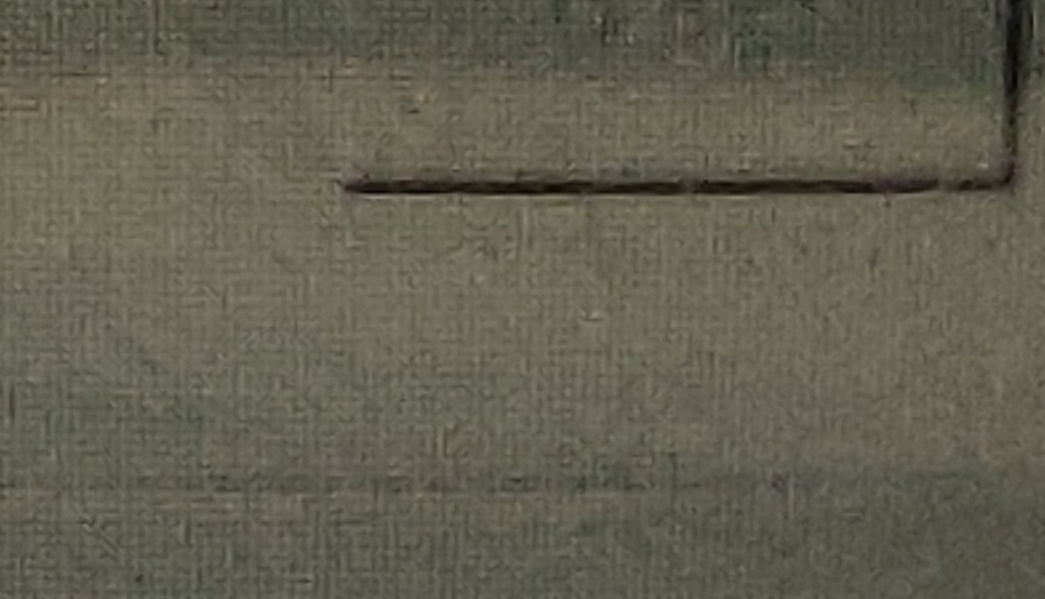
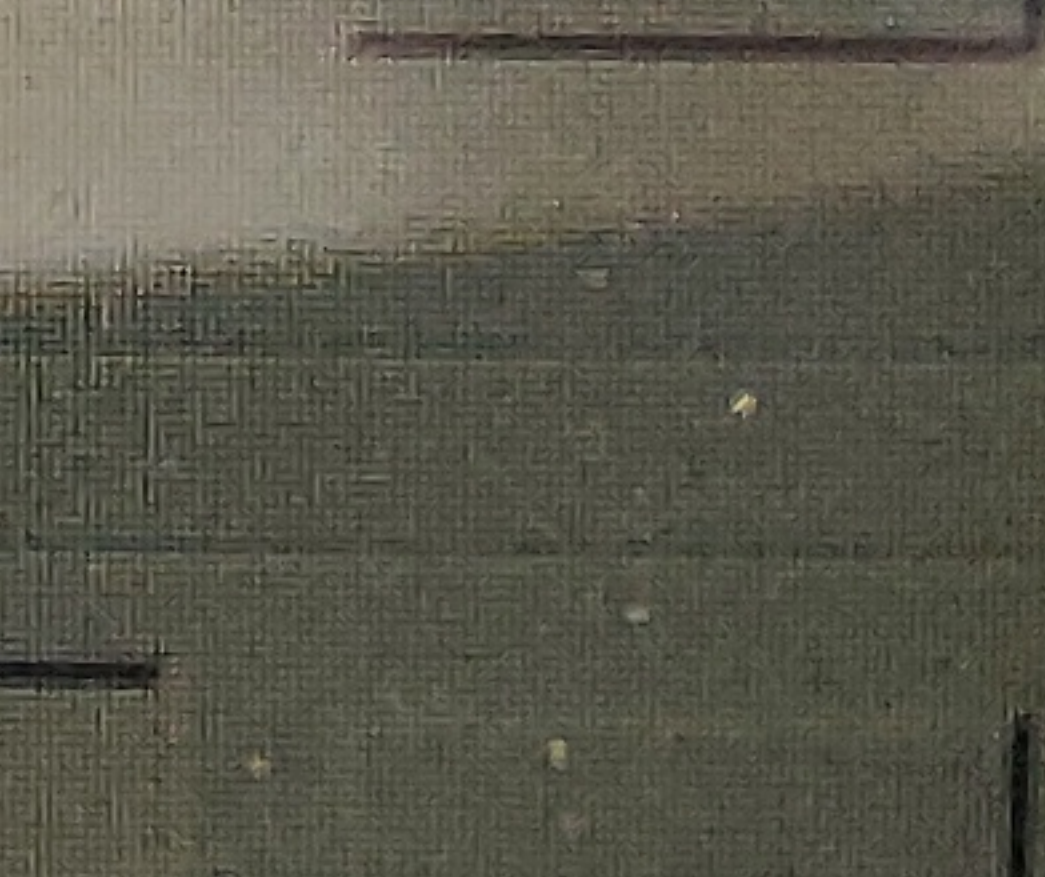
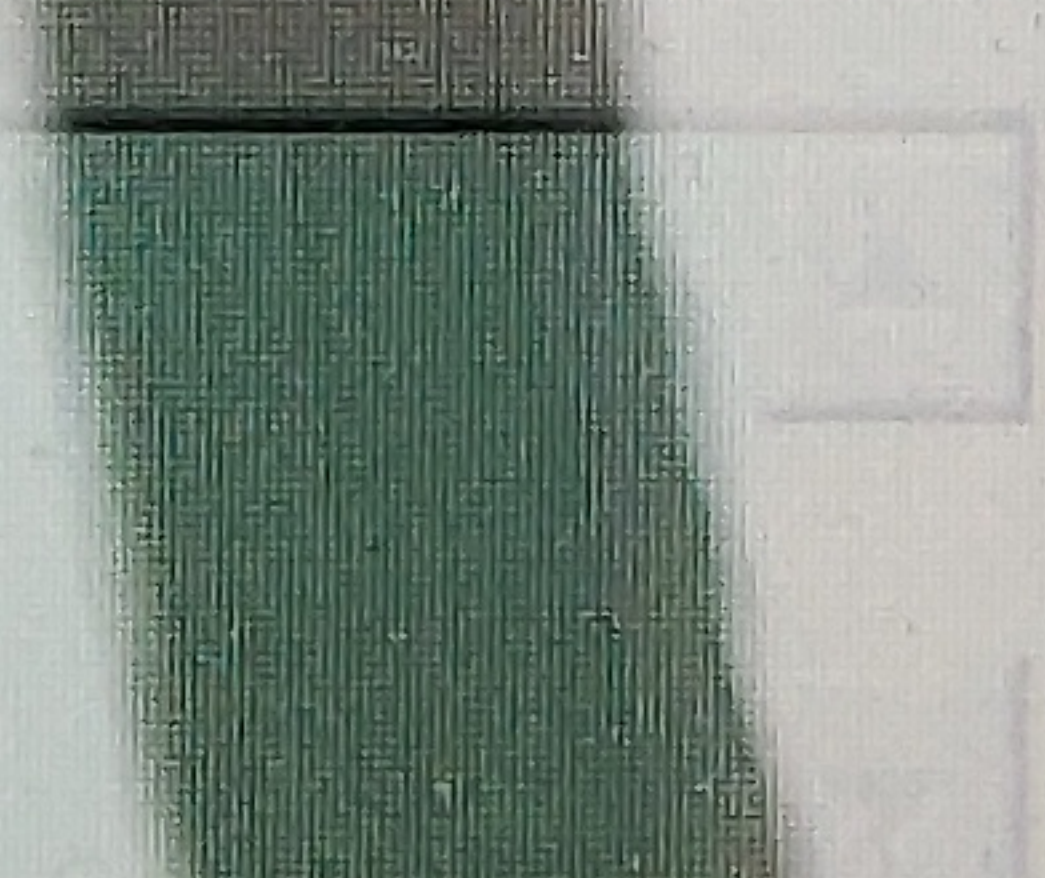
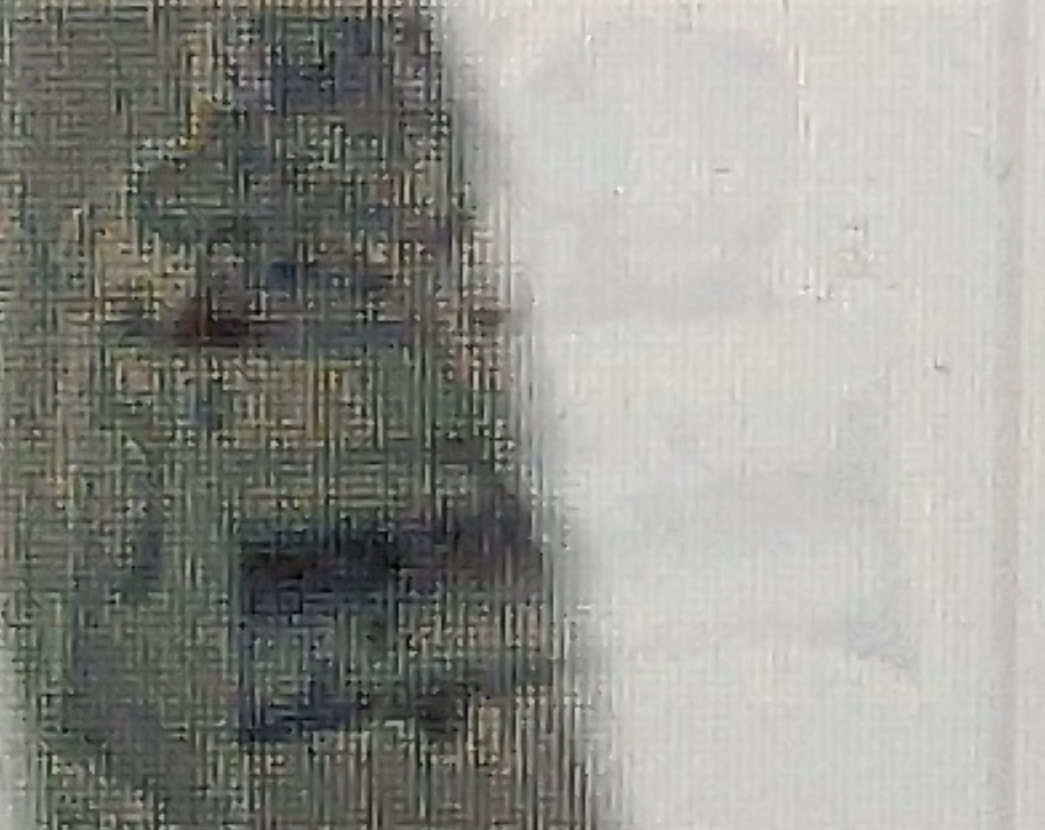
H-Log(P)

S_torque

Oil sep.

Ref. data

Diagrams



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 HS Comp. LS Comp. Evaporator Condenser Subco

re (deg.C): tabulate pr
 re (deg.C): tabulate Tre
 compute discharge line loss (K):

compound
 at (K):
 (K):

Low stage
 useful suction superheat (K):
 non useful superheat (K):
 interstage line loss (K):
 external interstage load (kW):
 Side load
 wanted capacity (kW):
 suction superheat (K):
 liquid subcooling (K):
 suction line loss (K):

open closed injection cascade
 number of interstage coolers

LS Compr. Evaporator Condenser Subcooler Disch. desuper

screw compressor type: SAB 202 S female drive
 internal volume ratio: optimal
 refrigerant designation: R717
 no. of compressor(s): 1.00
 load percentage: 100.0 %
 drive shaft speed: 2960. RPM (list)
 cooling capacity: 556.4 kW
 power consumption: 305.7 kW
 heating capacity: 862.1 kW
 capacity/power ratio: 1.82
 evaporating temperature: -30.0 deg.C
 condensing temperature: 40.0 deg.C
 suction line loss: 0.5 K
 discharge line loss: 0.0 K
 liquid subcooling: 57.8 K

NB: motor size corrected - too small for computed power cons.
 Oil cooler notes: none

Oil cooler selection log _____

Economizer selection log _____

Op. li
 H-Log
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 Oil sep
 Ref. da
 Diagram