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► Effektdiagrammer – Klimatisering



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Rittal – The System.

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ENCLOSURE

POWER DISTRIBUTION

CLIMATE CONTROL

Effektdiagrammer

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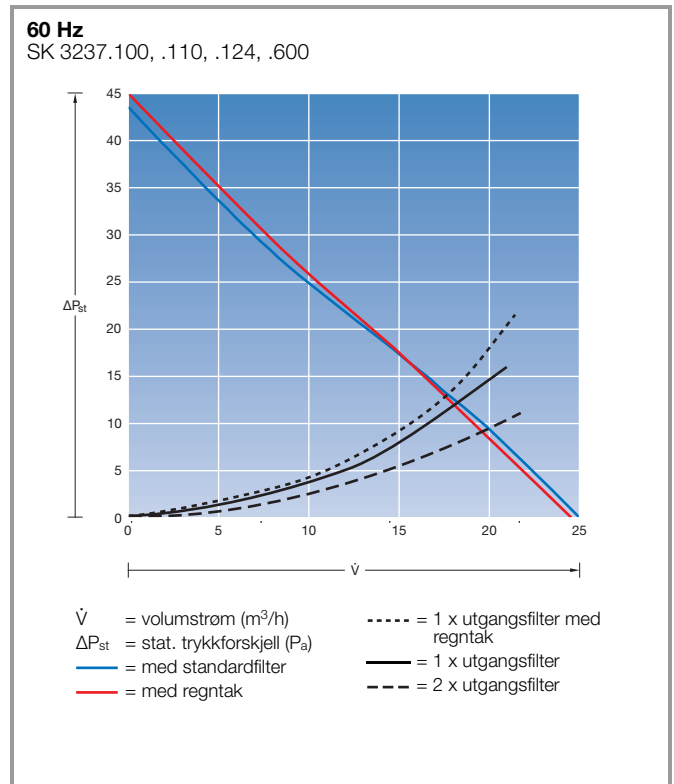
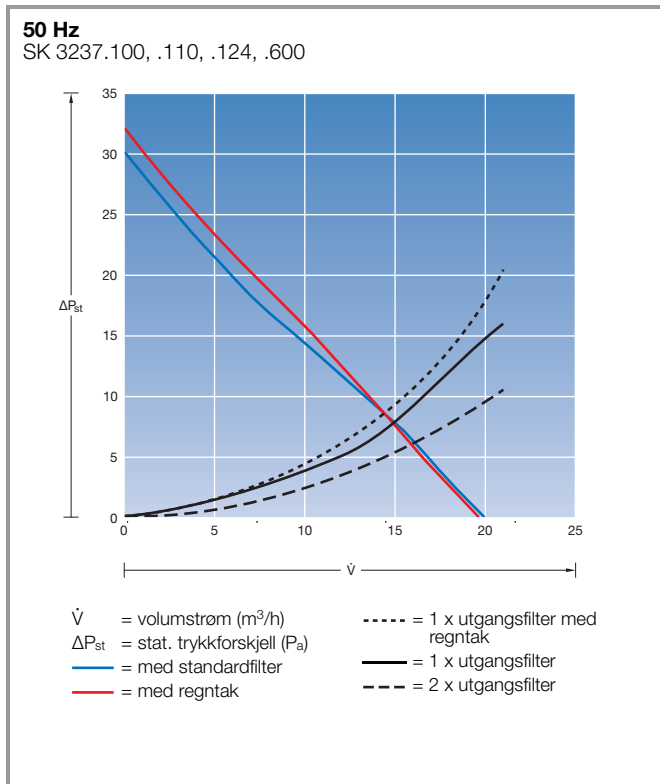
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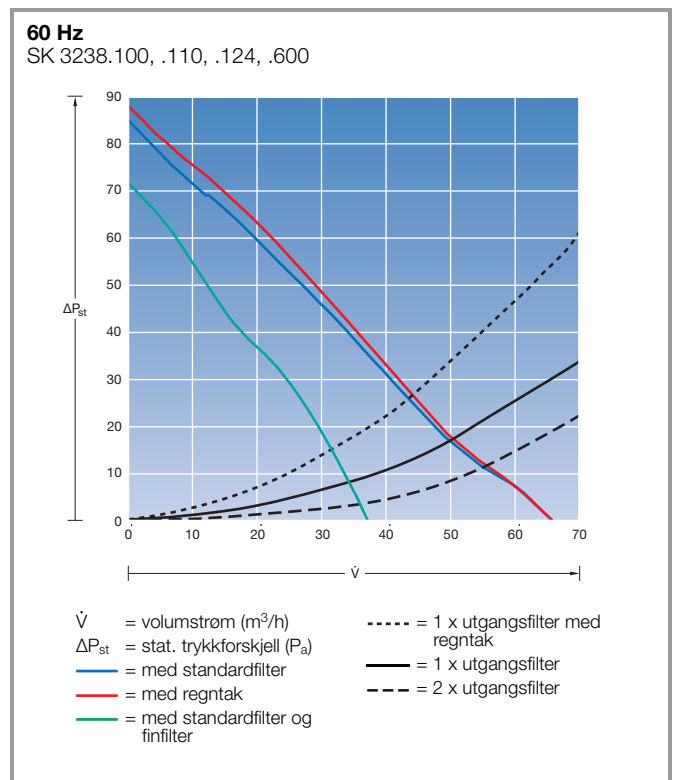
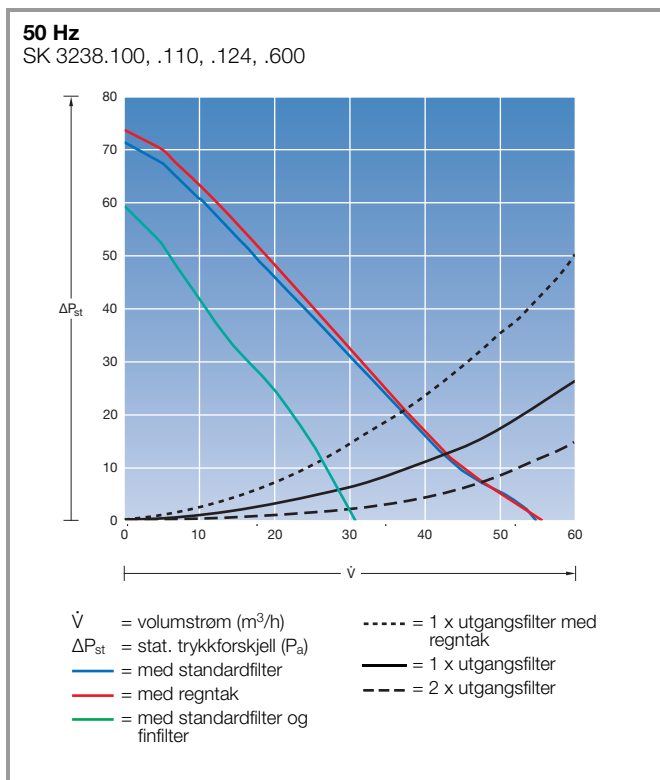


TopTherm filtervifte og TopTherm filtervifte EMC

Luftmengde 20/25 m³/h

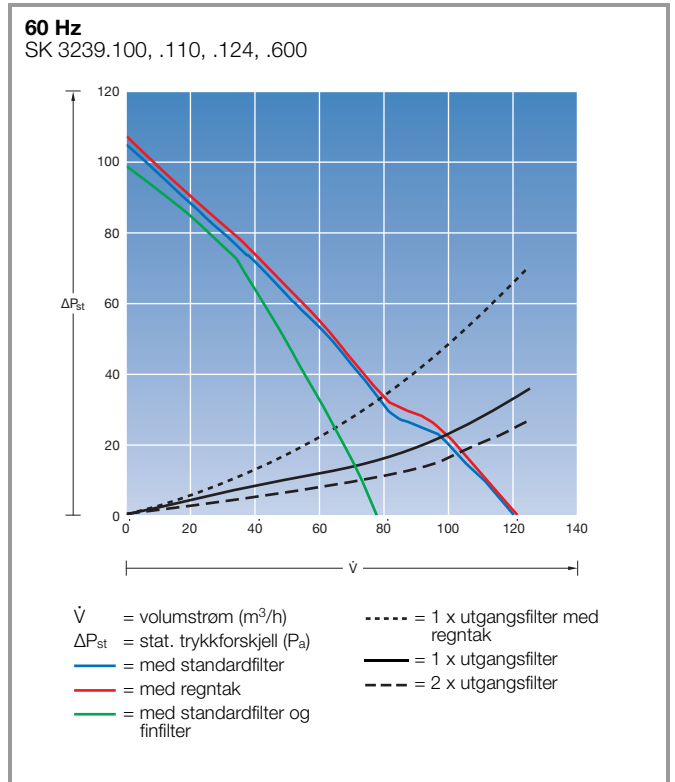
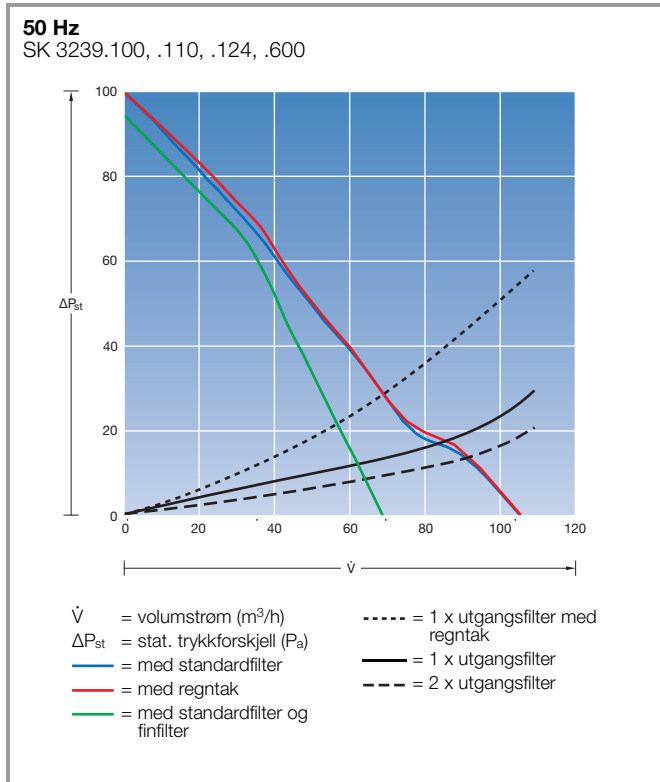


Luftmengde 55/66 m³/h

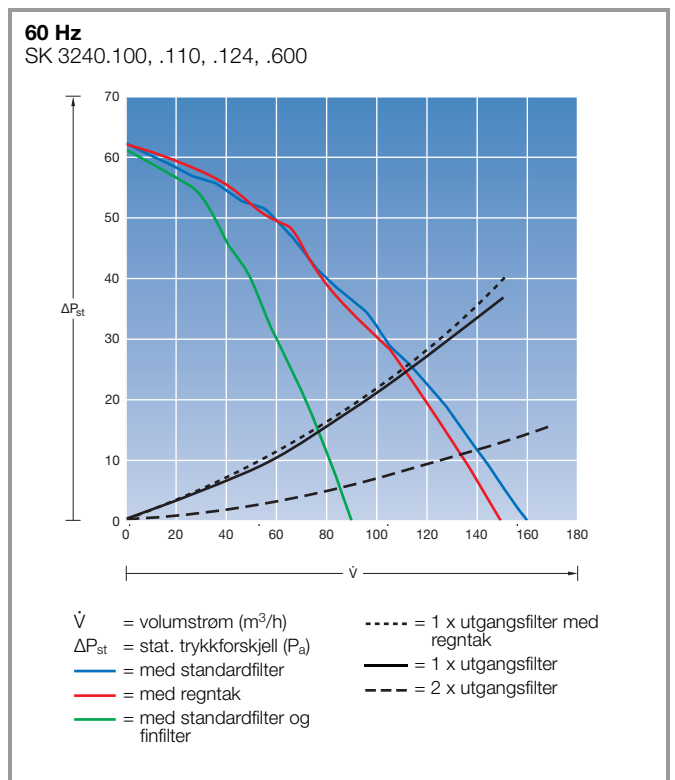
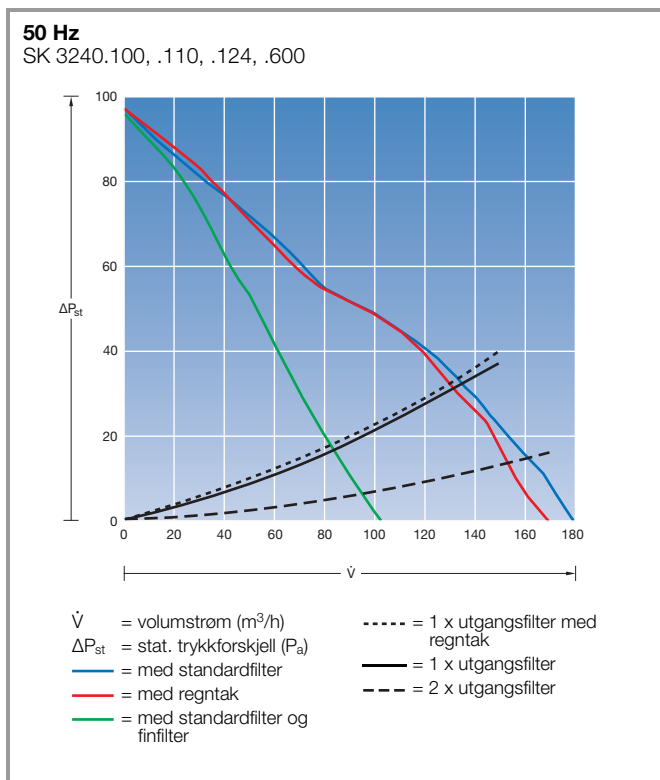


TopTherm filtervifte og TopTherm filtervifte EMC

Luftmengde 105/120 m³/h

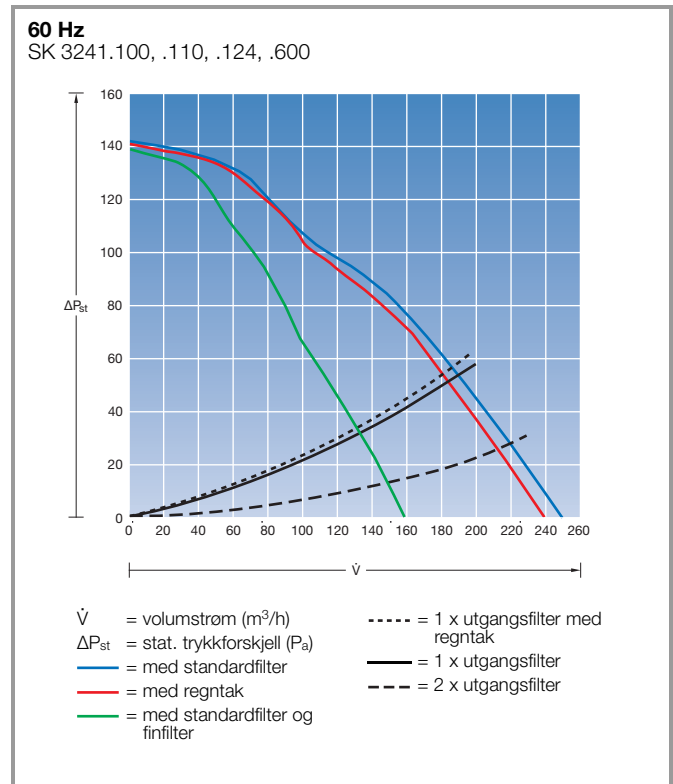
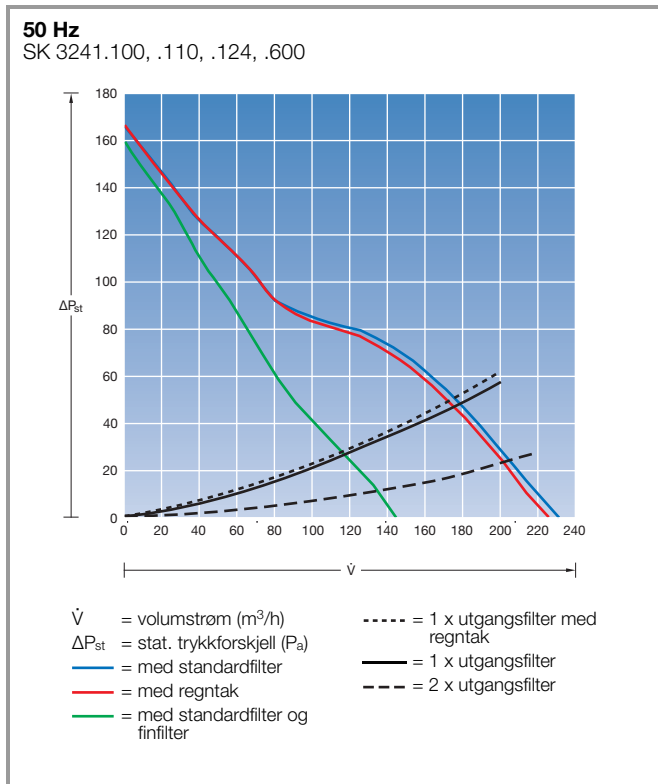


Luftmengde 180/160 m³/h

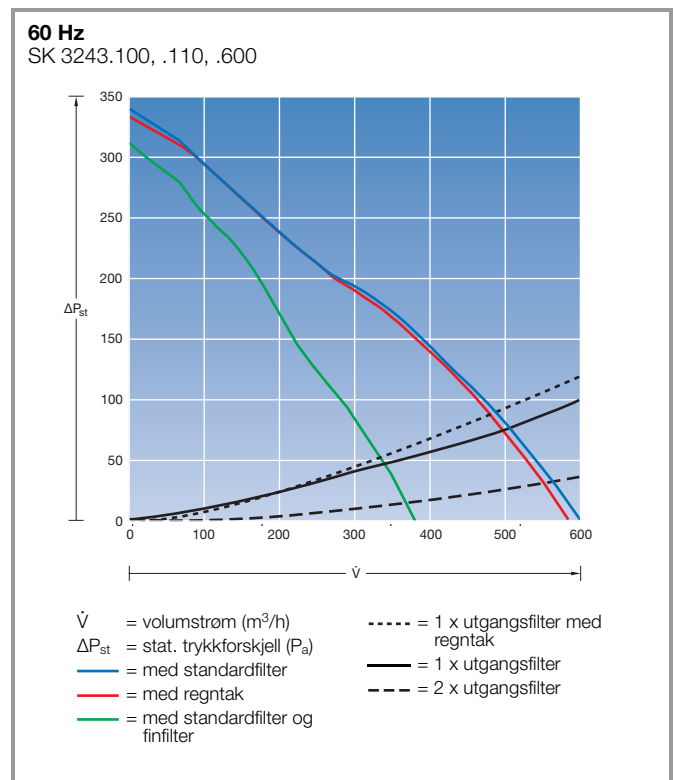
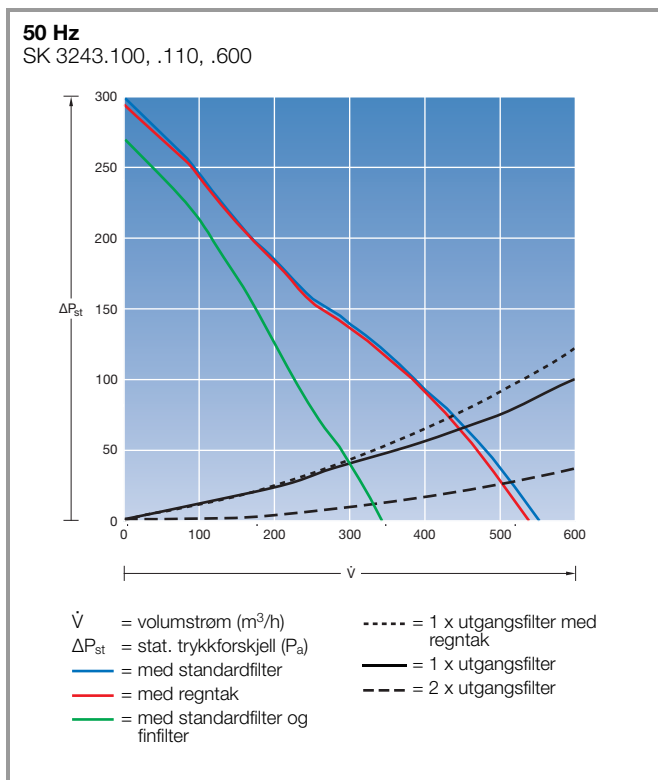


TopTherm filtervifte og TopTherm filtervifte EMC

Luftmengde 230/250 m³/h

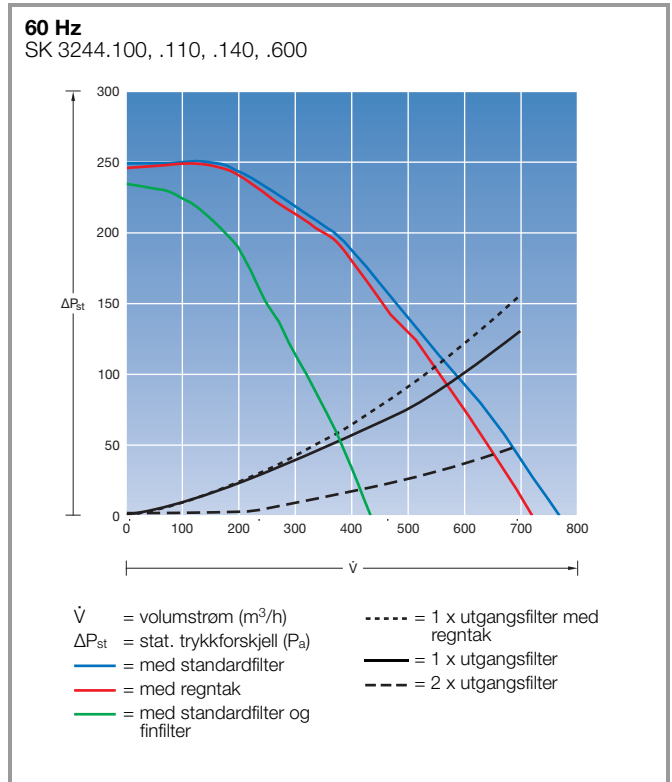
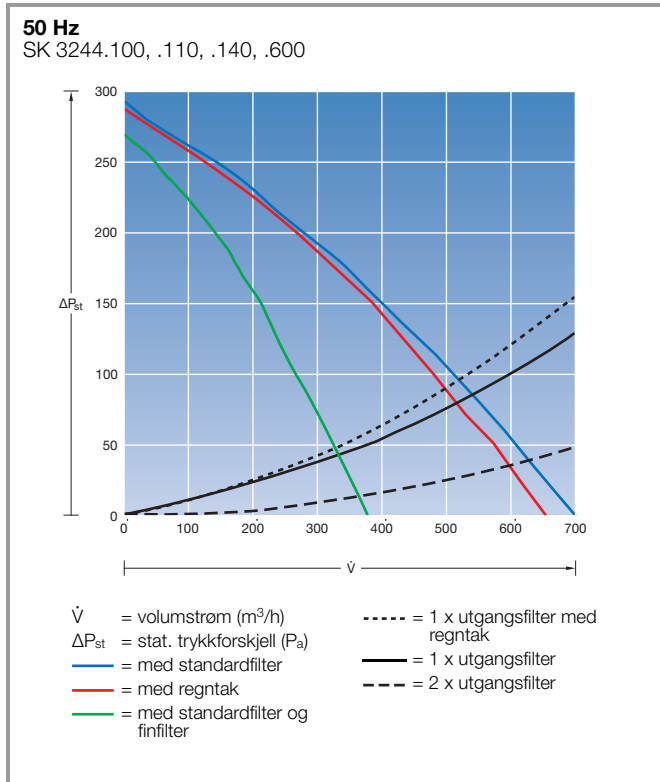


Luftmengde 550/600 m³/h

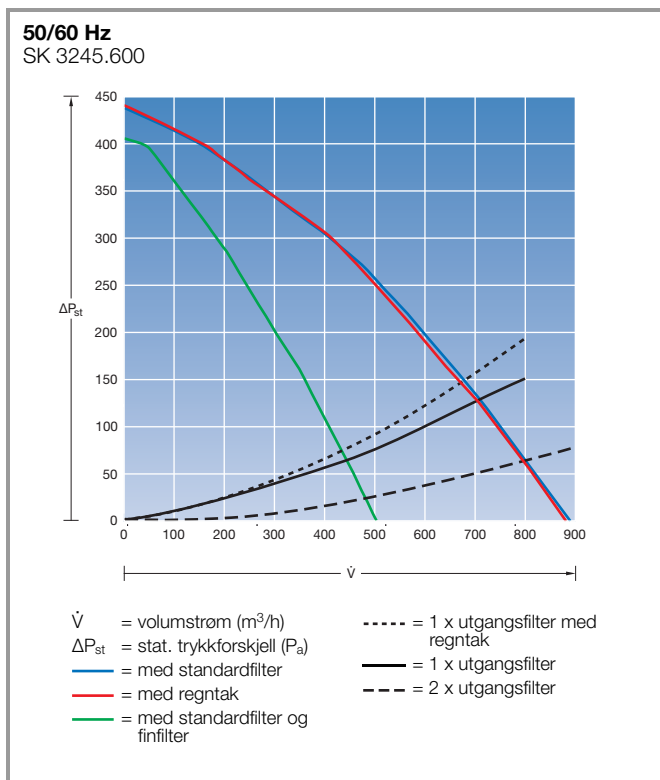


TopTherm filtervifte og TopTherm filtervifte EMC

Luftmengde 700/770 m³/h



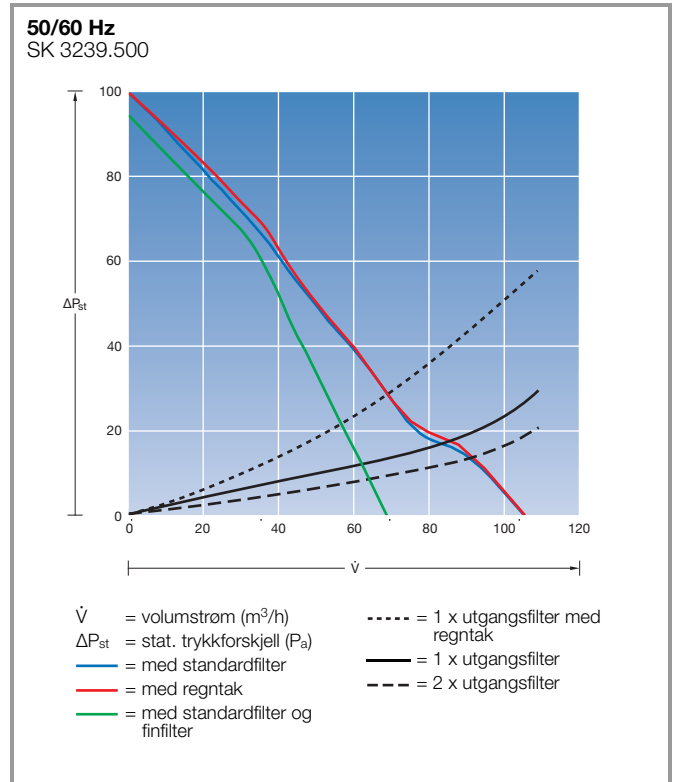
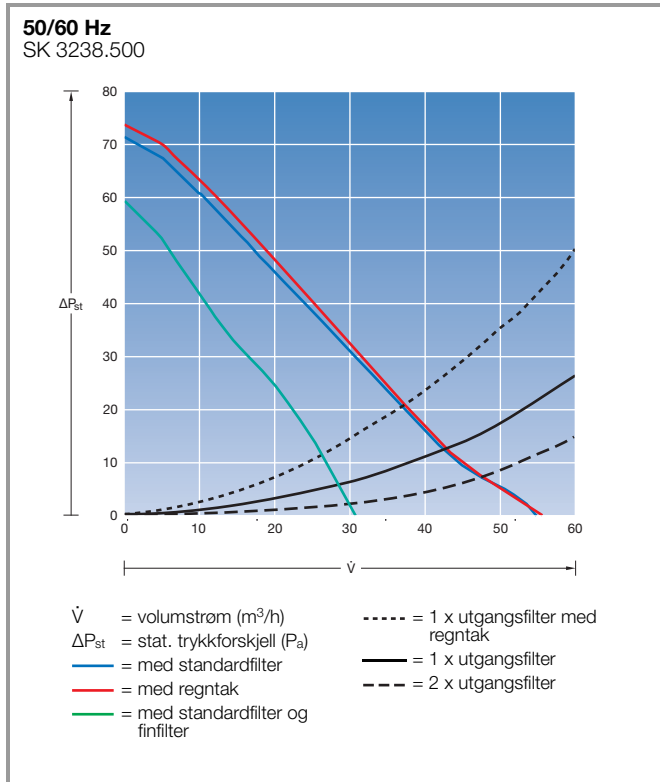
Luftmengde 900 m³/h



TopTherm filtervifte med EC-teknologi

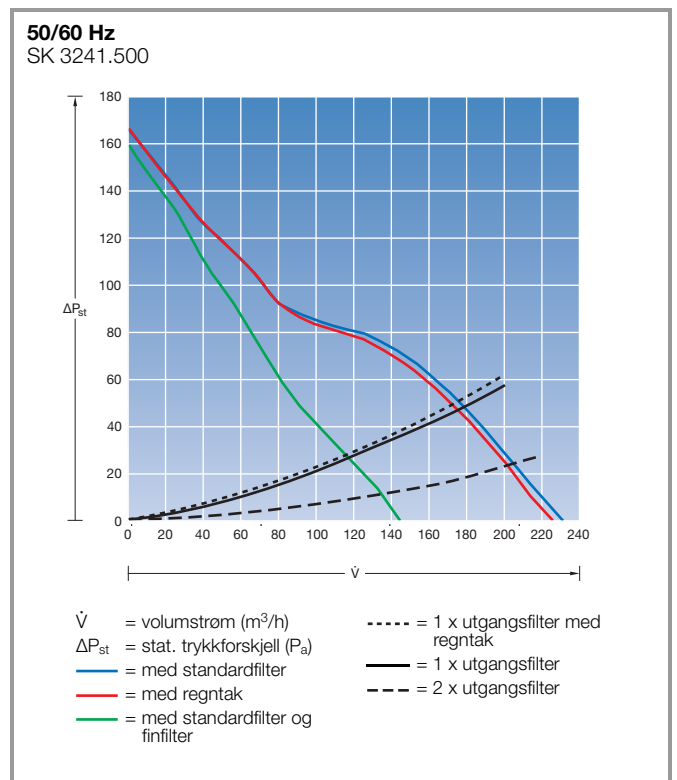
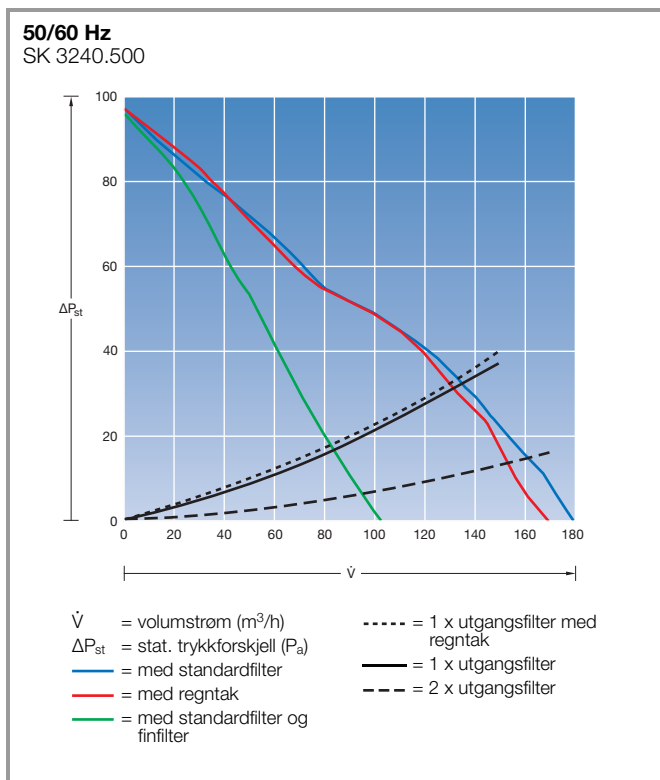
Luftmengde 55 m³/h

Luftmengde 105 m³/h



Luftmengde 180 m³/h

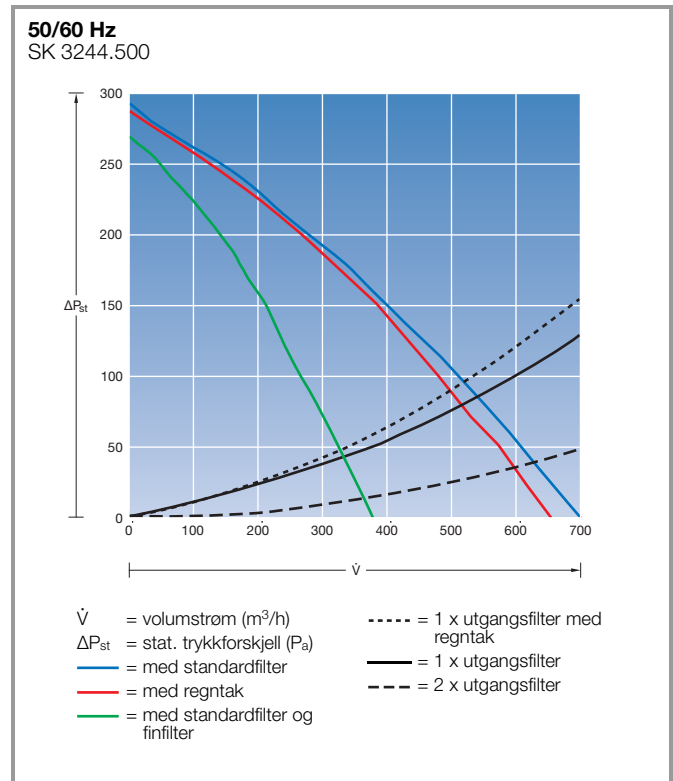
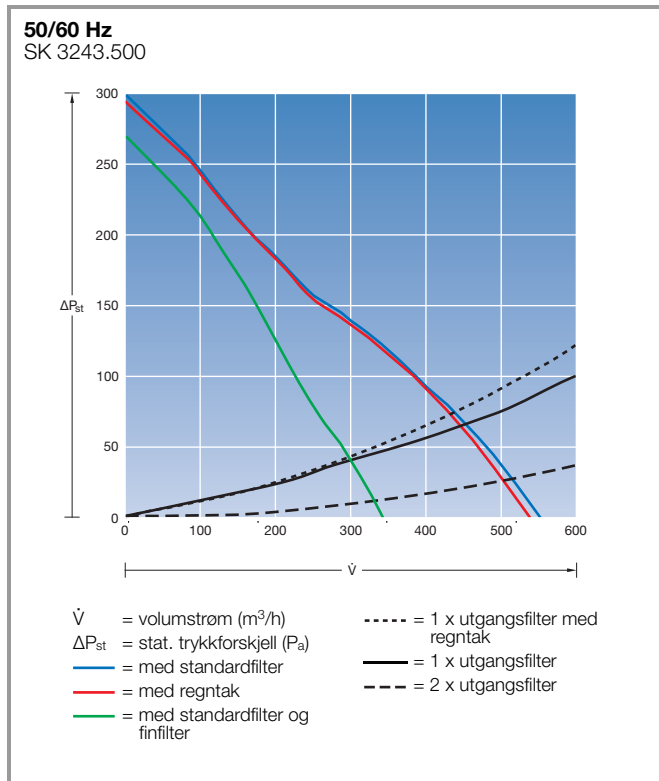
Luftmengde 230 m³/h



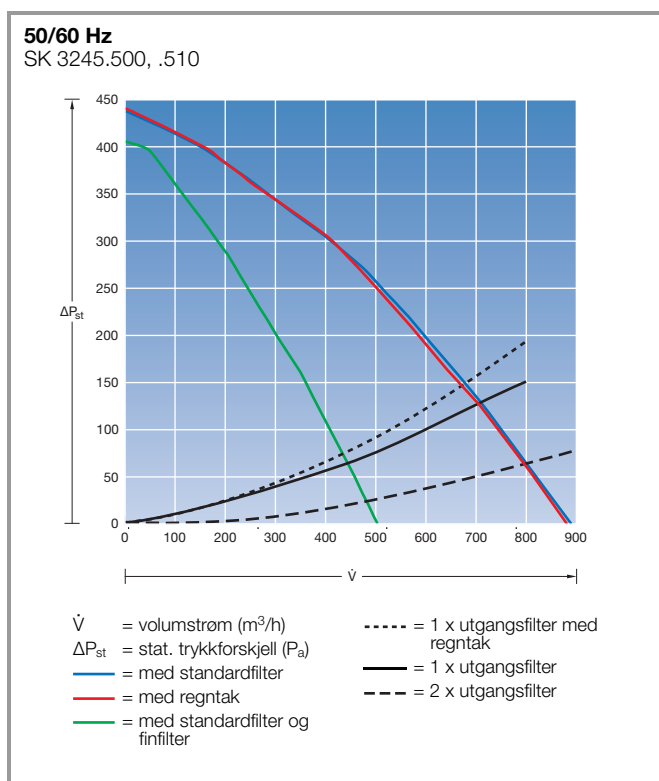
TopTherm filtervifte med EC-teknologi

Luftmengde 550 m³/h

Luftmengde 700 m³/h



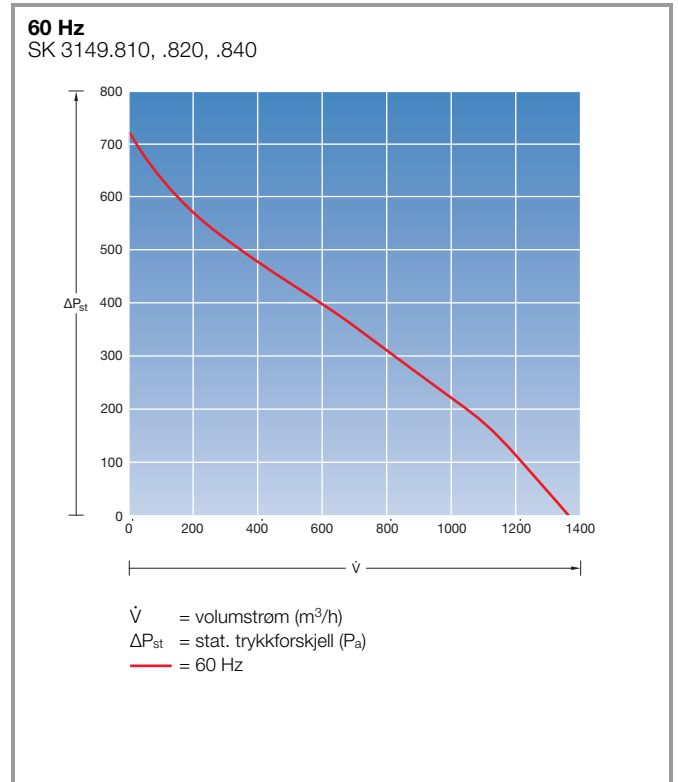
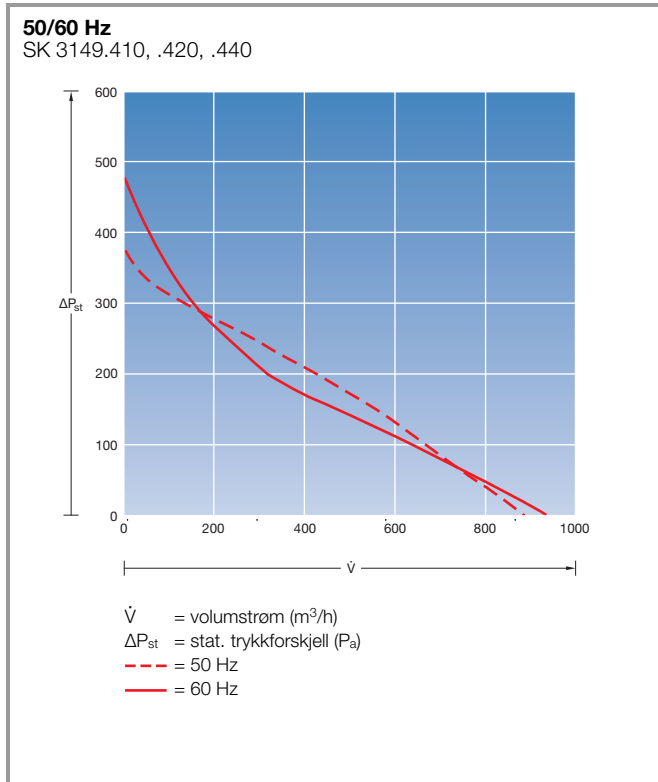
Luftmengde 900 m³/h



TopTherm takvifte

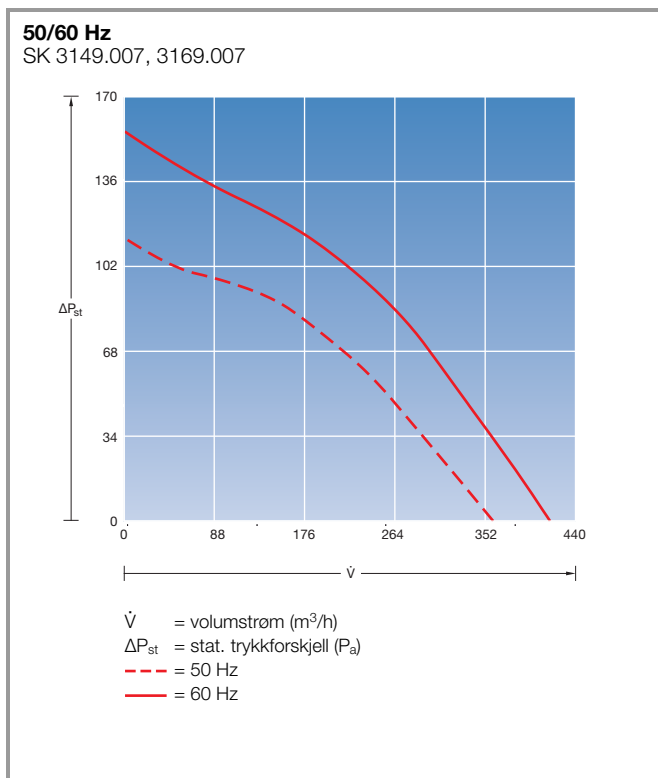
Luftmengde 400 m³/h

Luftmengde 800 m³/h



Takvifte, taklufting

Luftmengde 360 m³/h

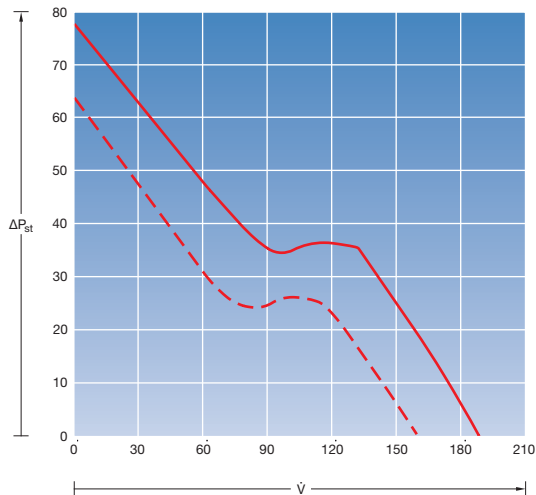


Innskyvingsvifte for 482,6 mm (19")

Luftmengde 320/480 m³/h

50/60 Hz

SK 3340.230, 3350.230, 3341.115, .230, 3342.024, .230, .500, 3351.230, 3352.230, .500



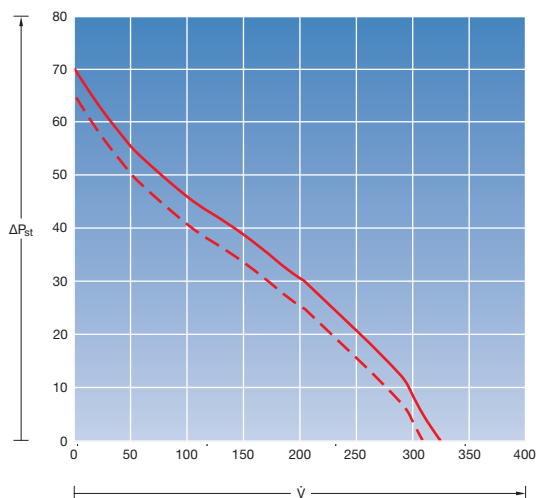
\dot{V} = volumstrøm (m³/h)
 ΔP_{st} = stat. trykkforskjell (Pa)
 - - - = 50 Hz
 — = 60 Hz

Trykkvifte for 482,6 mm (19")

Luftmengde 320 m³/h

50/60 Hz

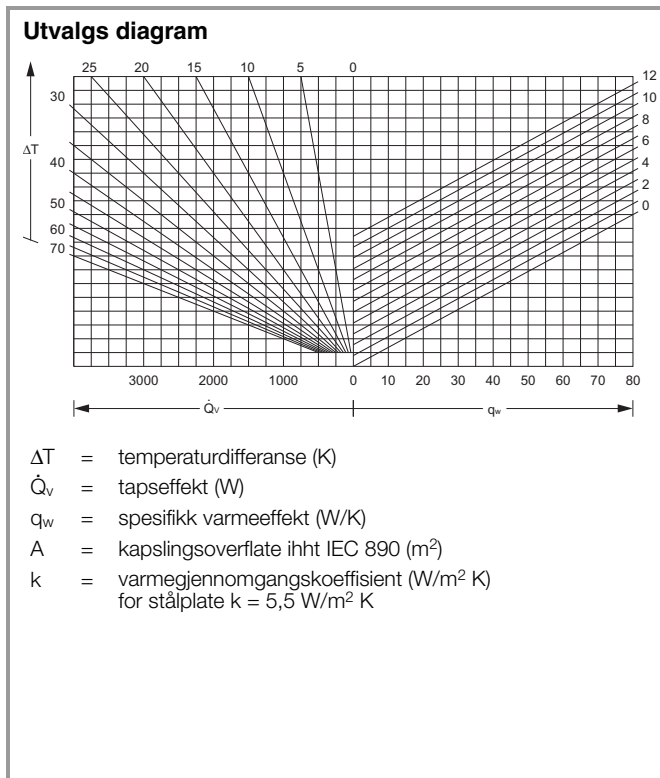
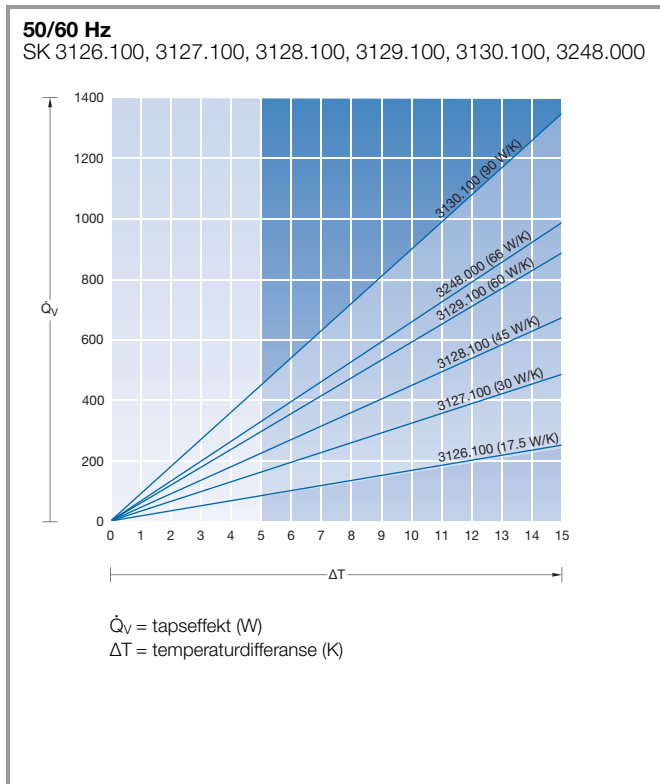
SK 3144.000, 3145.000



\dot{V} = volumstrøm (m³/h)
 ΔP_{st} = stat. trykkforskjell (Pa)
 - - - = 50 Hz
 — = 60 Hz

TopTherm luft/luft-varmeveksler

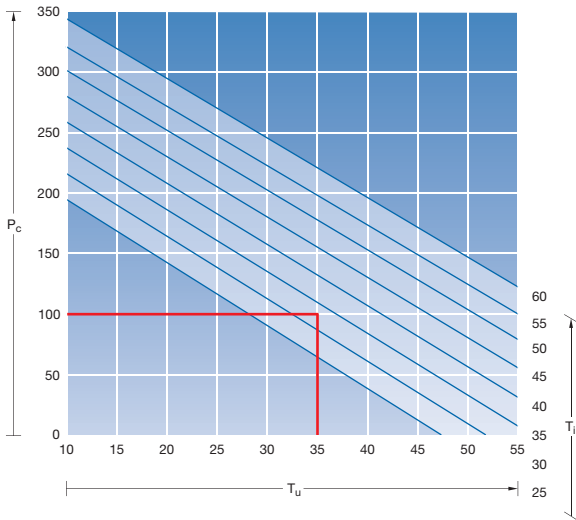
Spesifikk varmeeffekt 17,5 – 90 W/K, veggmontering med regulering



Termoelektrisk kjøler

Kjøleeffekt

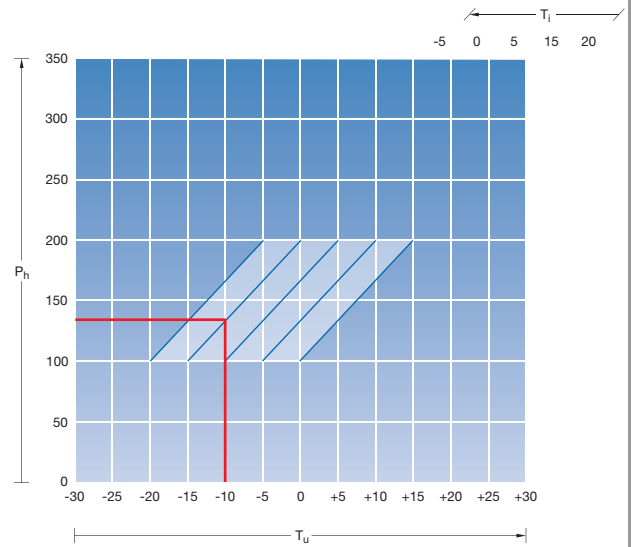
50/60 Hz
SK 3201.200, .300



T_u = omgivelsestemperatur (°C)
 P_c = total kjøleeffekt (W)
 T_i = innvendig temperatur i kapsling (°C)

Varmeeffekt

50/60 Hz
SK 3201.200, .300

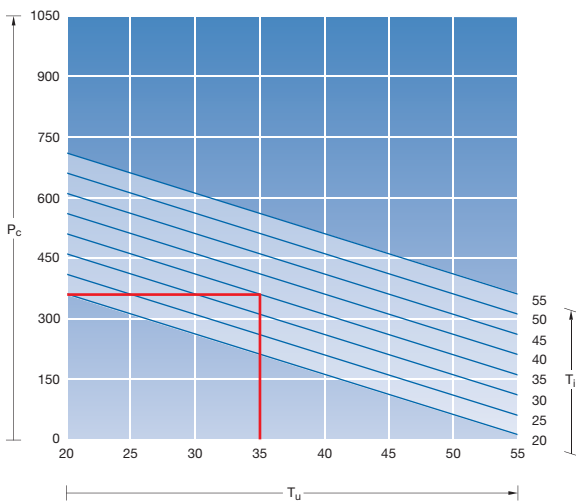


T_u = omgivelsestemperatur (°C)
 P_h = varmeeffekt (W)
 T_i = innvendig temperatur i kapsling (°C)

TopTherm kjøleaggregater for veggmontering

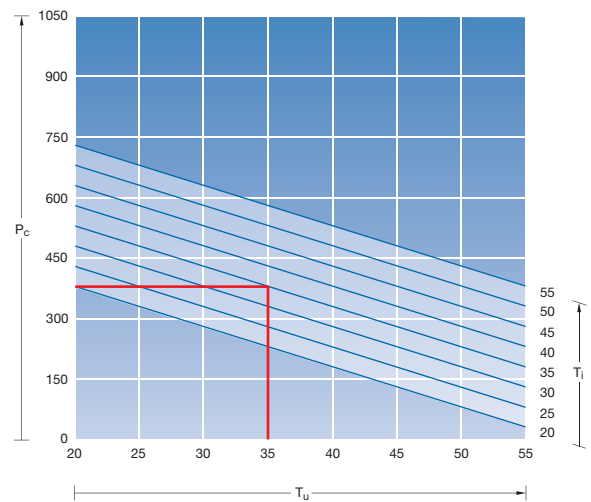
Effektklasse 300 W (115/230 V, 1~)

50 Hz
SK 3302.300, .310, .100, .110, .200



T_u = omgivelsestemperatur (°C)
 P_c = total kjøleeffekt (W)
 T_i = innvendig temperatur i kapsling (°C)

60 Hz
SK 3302.300, .310, .100, .110, .200

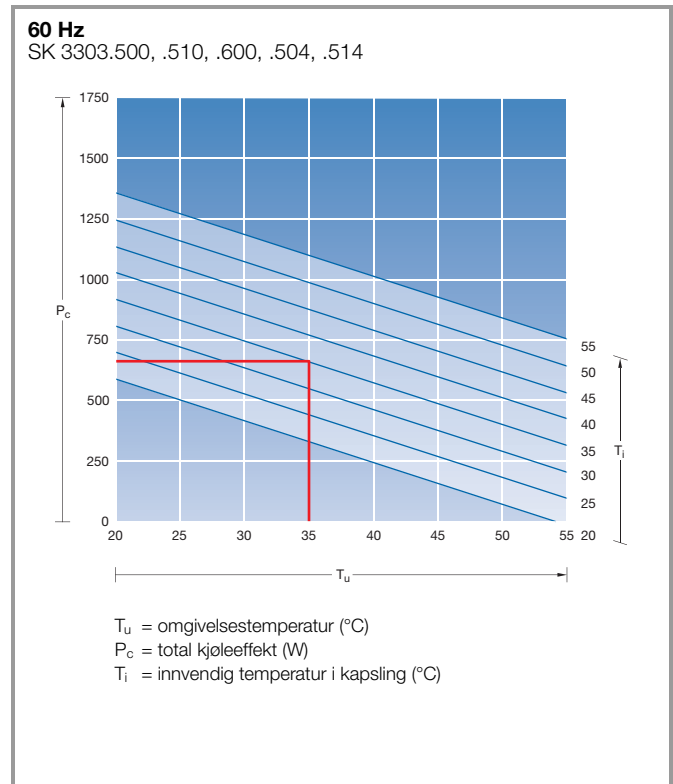
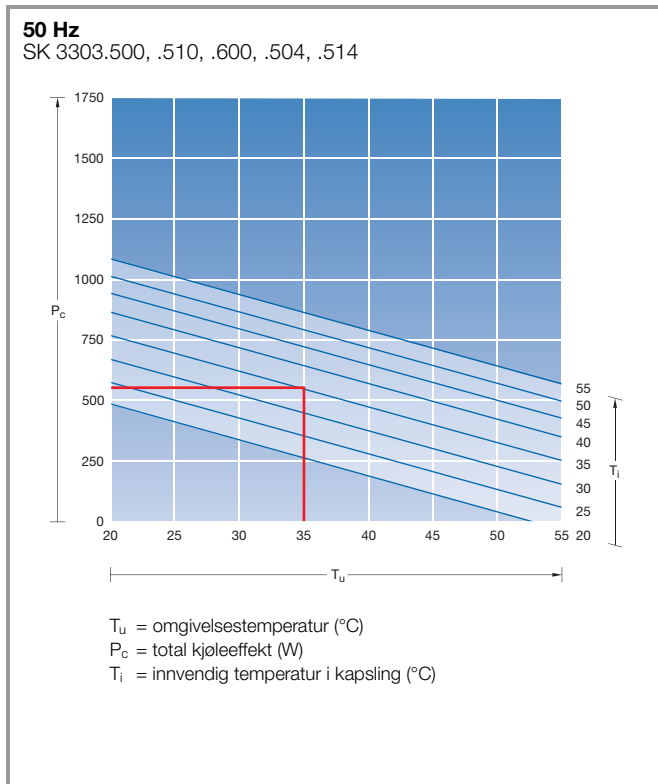


T_u = omgivelsestemperatur (°C)
 P_c = total kjøleeffekt (W)
 T_i = innvendig temperatur i kapsling (°C)

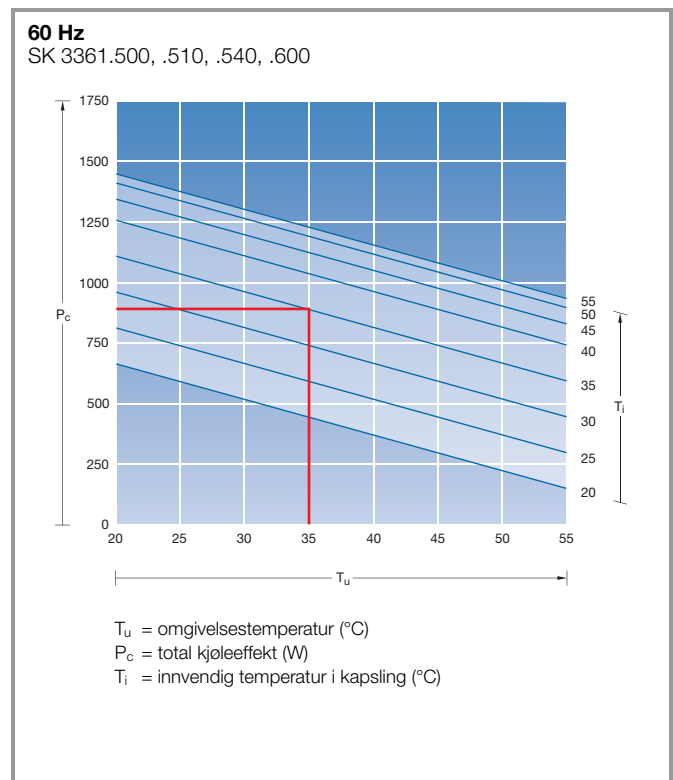
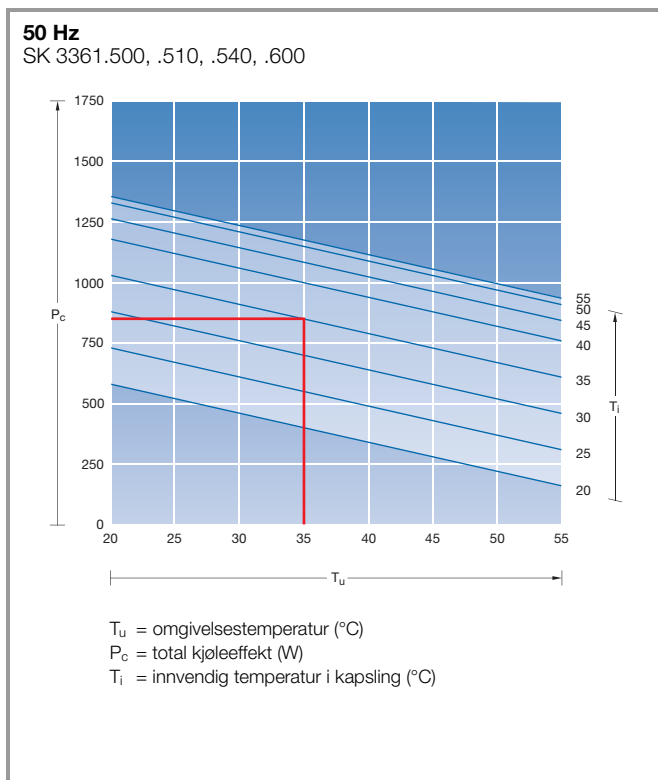
Kjøleaggregater

Kjøleaggregater for veggmontering TopTherm Blue e

Effektklasse 500 W (115/230 V, 1~)

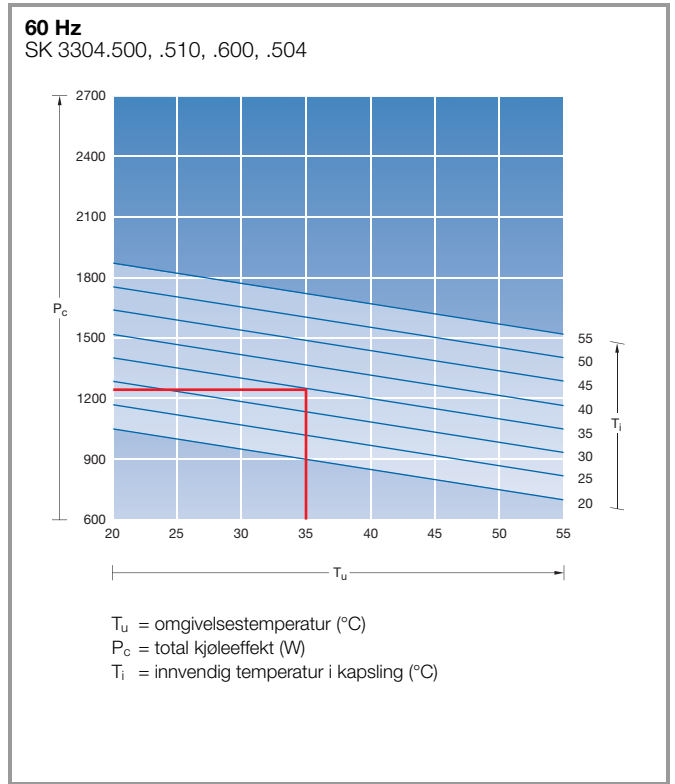
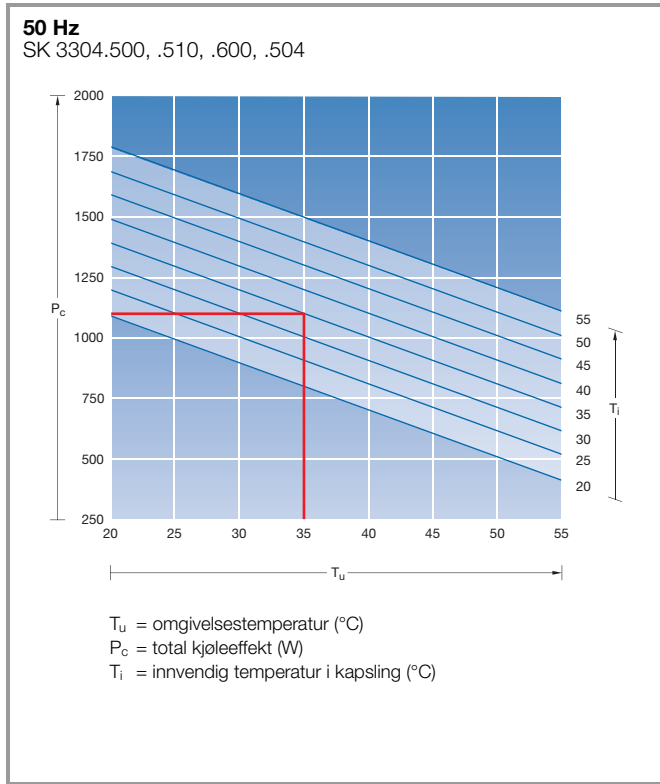


Effektklasse 750 W (115/230 V, 1~, 400 V, 2~)

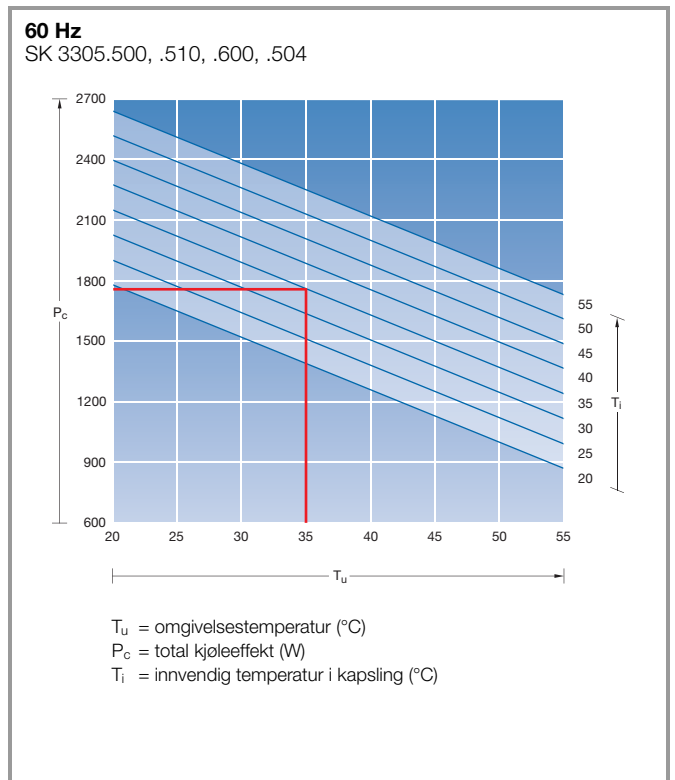
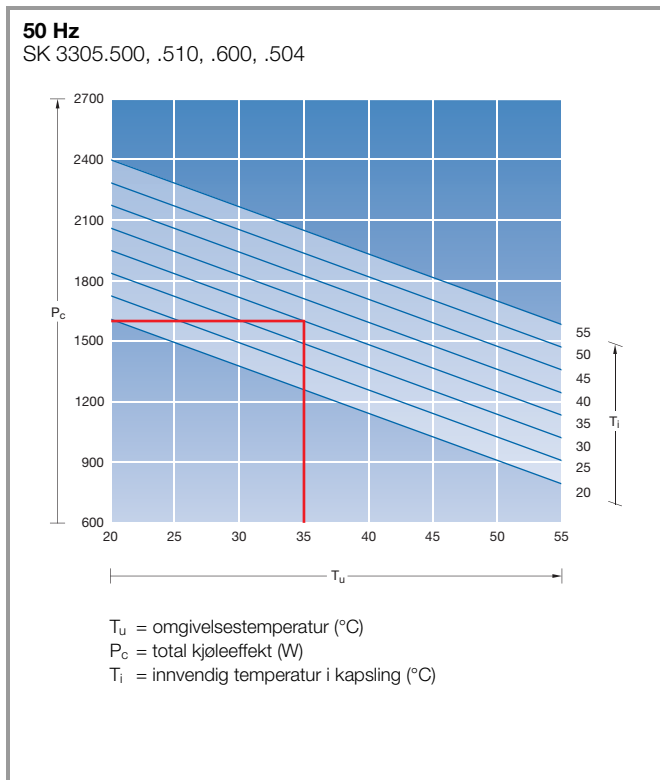


Kjøleaggregater for veggmontering TopTherm Blue e

Effektklasse 1000 W (115/230 V, 1~)



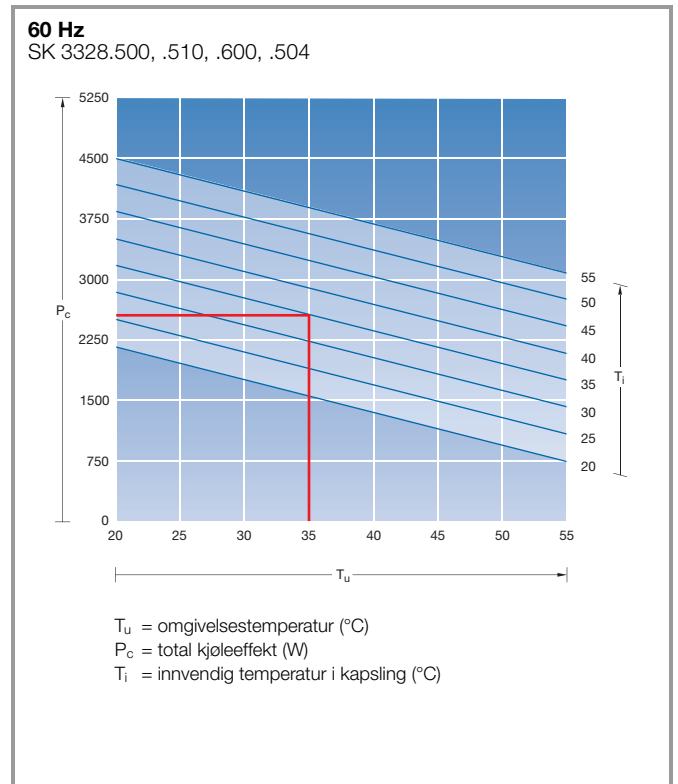
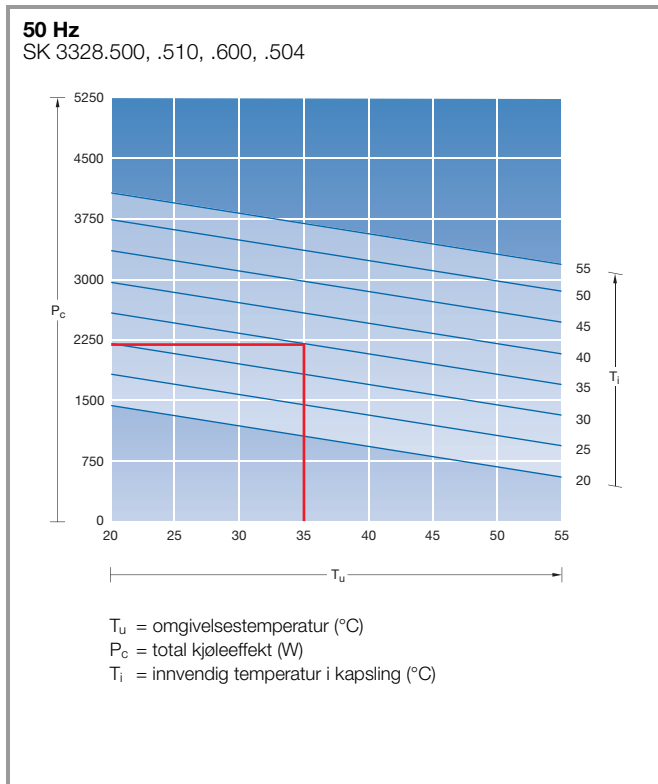
Effektklasse 1500 W (115/230 V, 1~)



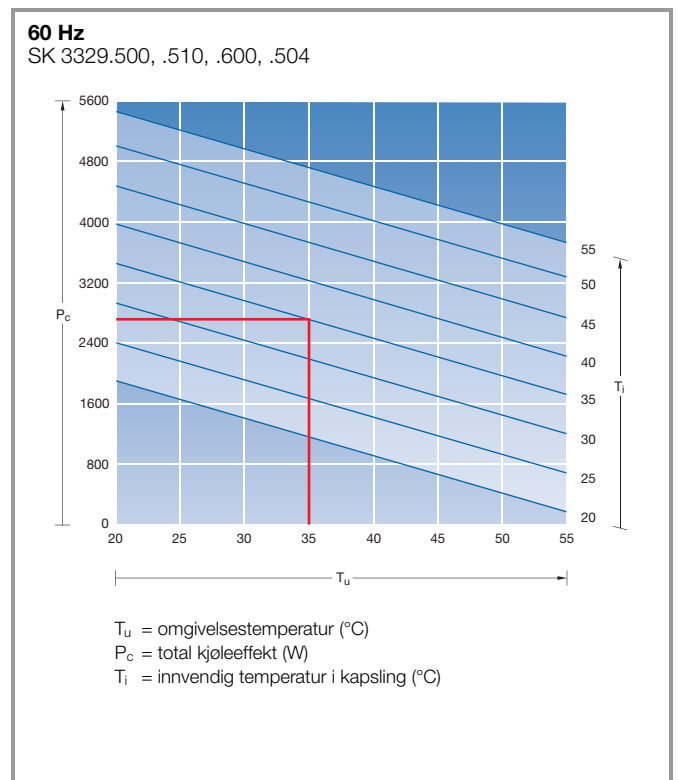
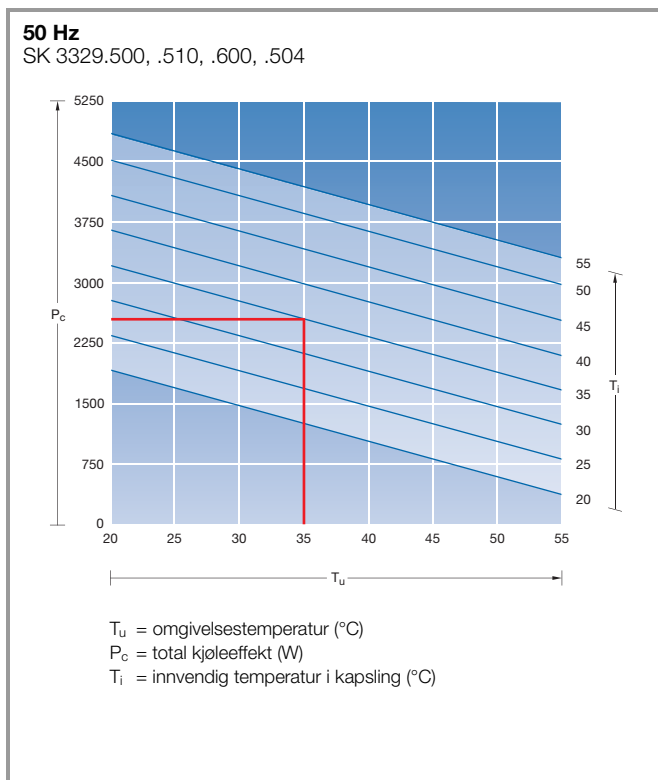
Kjøleaggregater

Kjøleaggregater for veggmontering TopTherm Blue e

Effektklasse 2000 W (115/230 V, 1~)

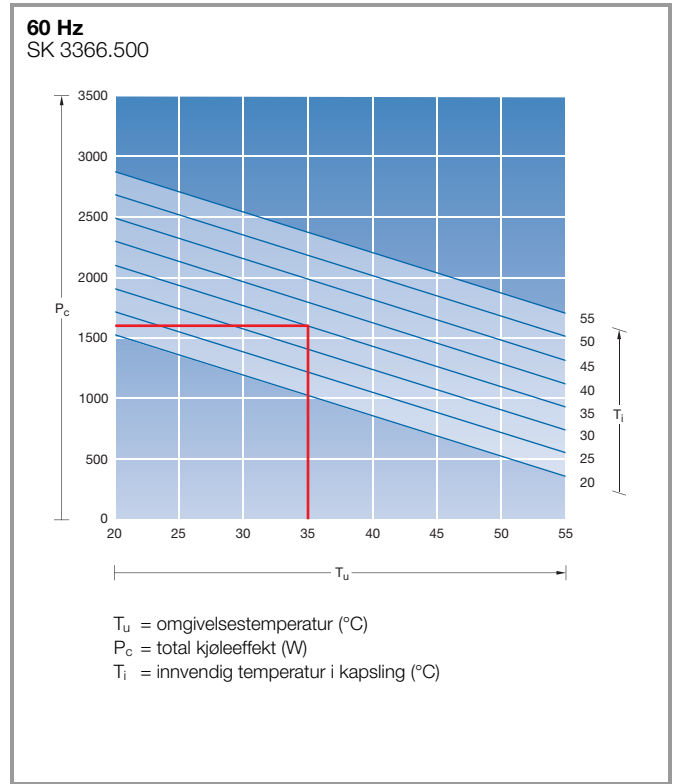
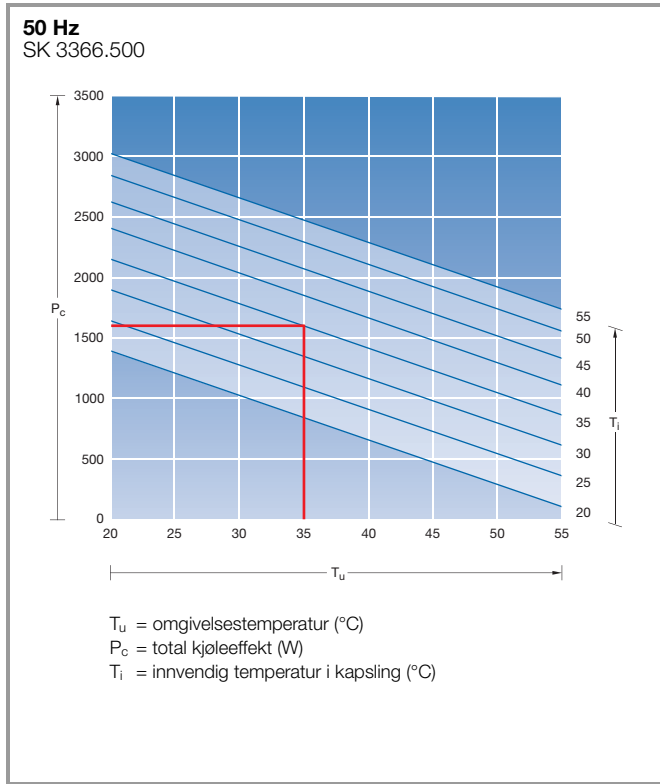


Effektklasse 2500 W (115/230 V, 1~)

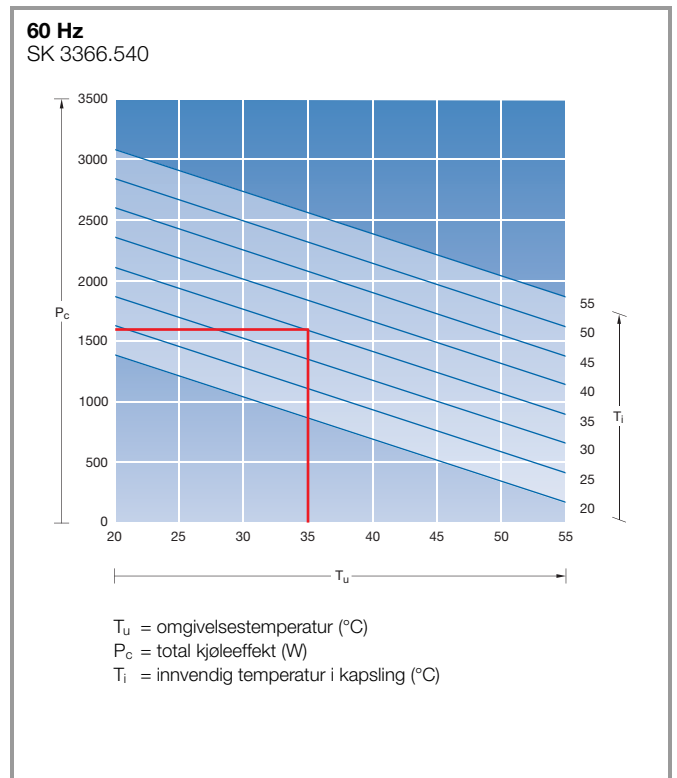
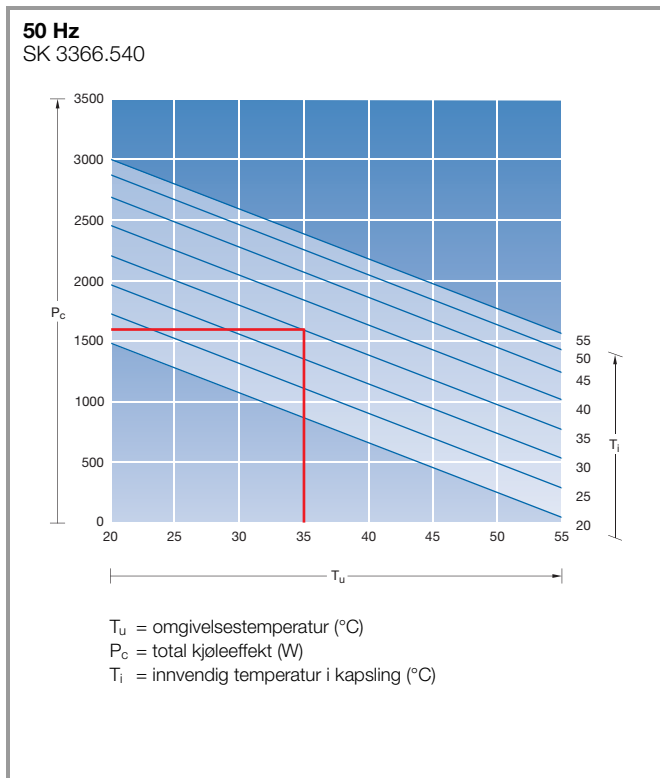


Kjøleaggregater for veggmontering TopTherm Blue e, flat

Effektklasse 1500 W (230 V, 1~)



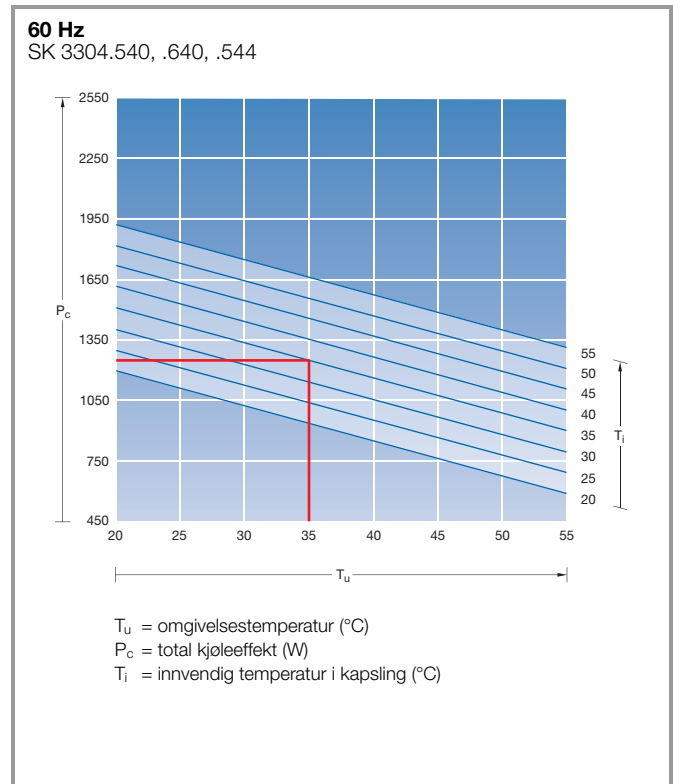
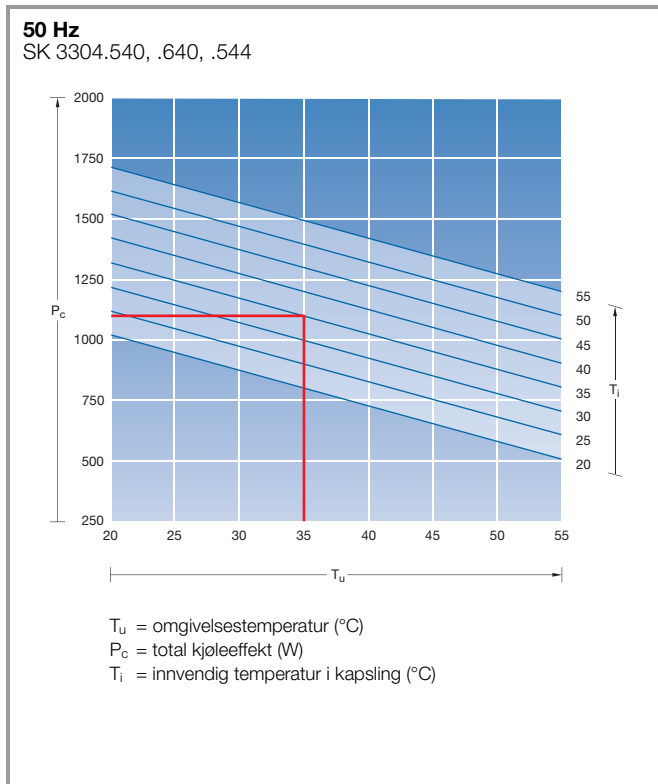
Effektklasse 1500 W (400/460 V, 3~)



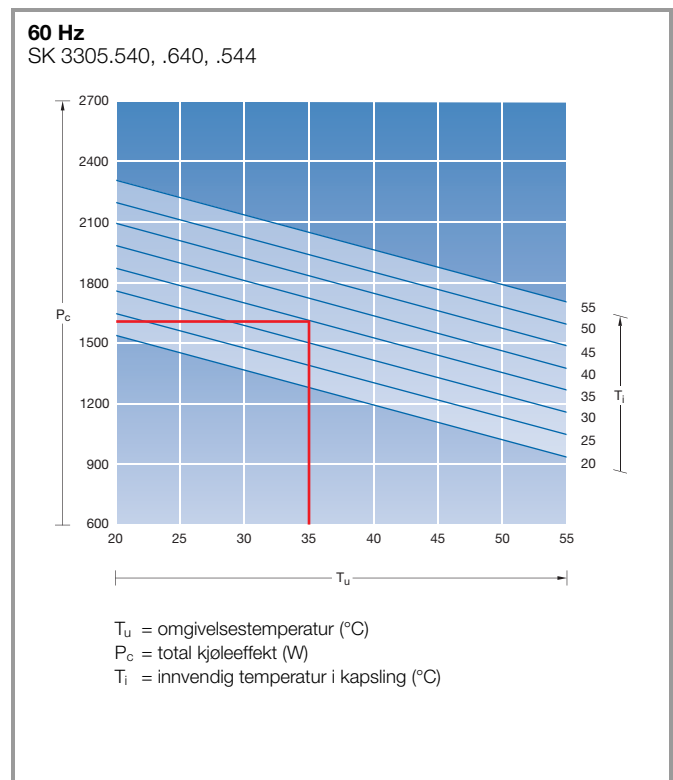
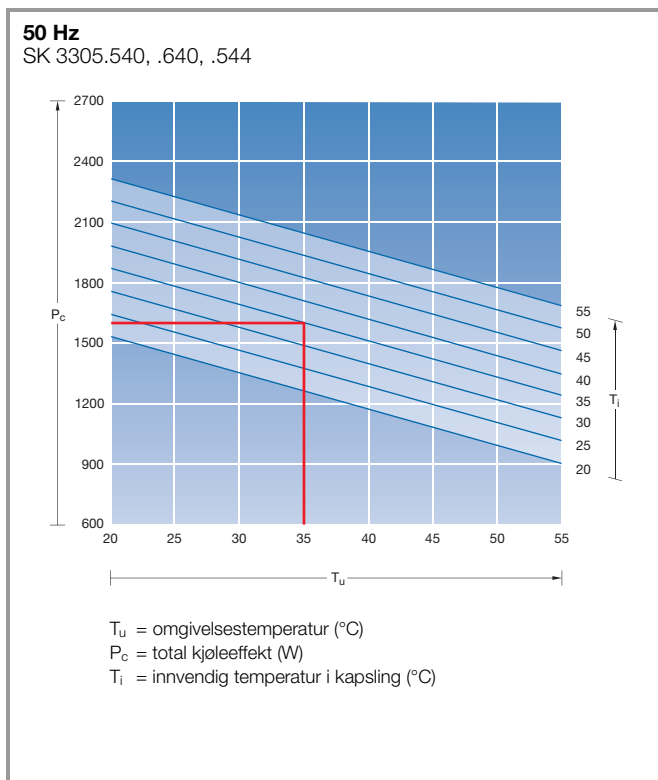
Kjøleaggregater

Kjøleaggregater for veggmontering TopTherm Blue e

Effektklasse 1000 W (400/460 V, 3~)



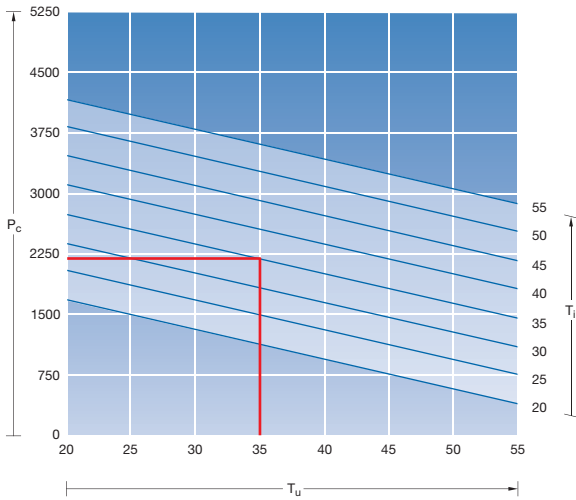
Effektklasse 1500 W (400/460 V, 3~)



Kjøleaggregater for veggmontering TopTherm Blue e

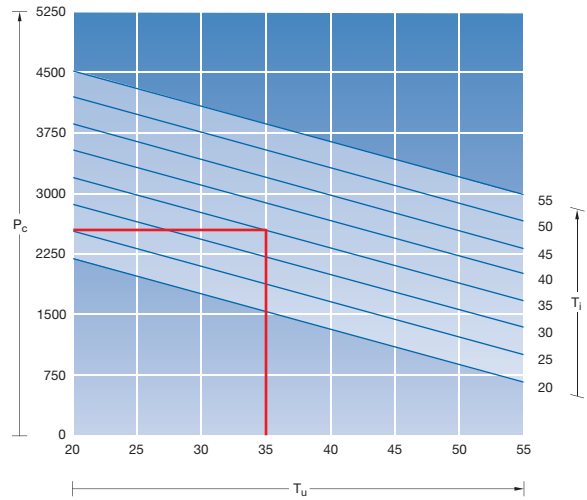
Effektklasse 2000 W (400/460 V, 3~)

50 Hz
SK 3328.540, .640, .544



T_u = omgivelsestemperatur (°C)
 P_c = total kjøleeffekt (W)
 T_i = innvendig temperatur i kapsling (°C)

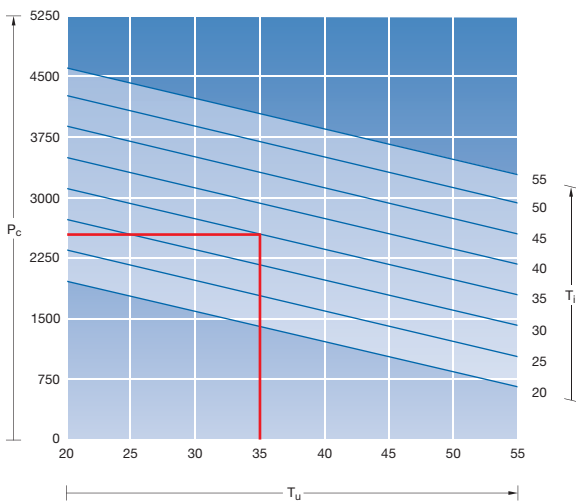
60 Hz
SK 3328.540, .640, .544



T_u = omgivelsestemperatur (°C)
 P_c = total kjøleeffekt (W)
 T_i = innvendig temperatur i kapsling (°C)

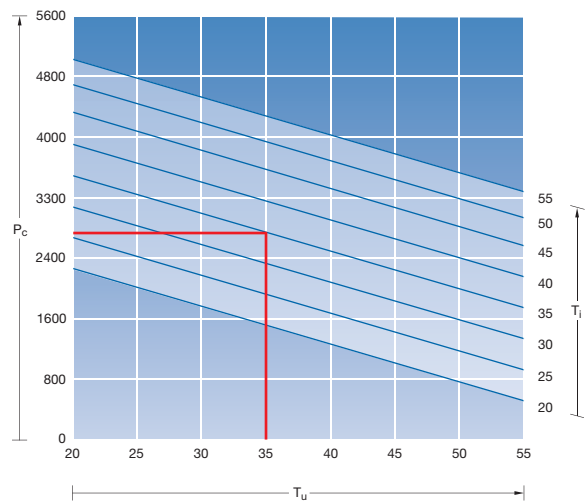
Effektklasse 2500 W (400/460 V, 3~)

50 Hz
SK 3329.540, .640, .544



T_u = omgivelsestemperatur (°C)
 P_c = total kjøleeffekt (W)
 T_i = innvendig temperatur i kapsling (°C)

60 Hz
SK 3329.540, .640, .544

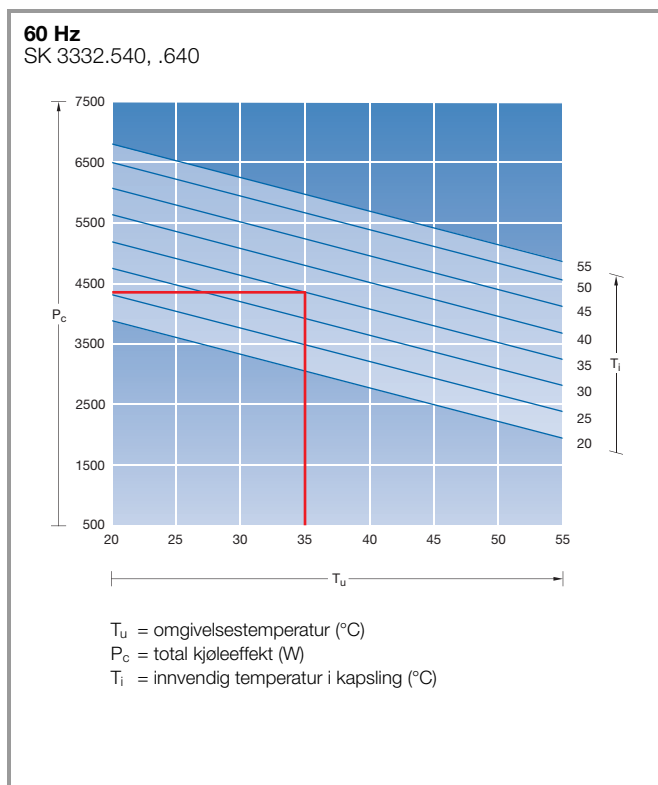
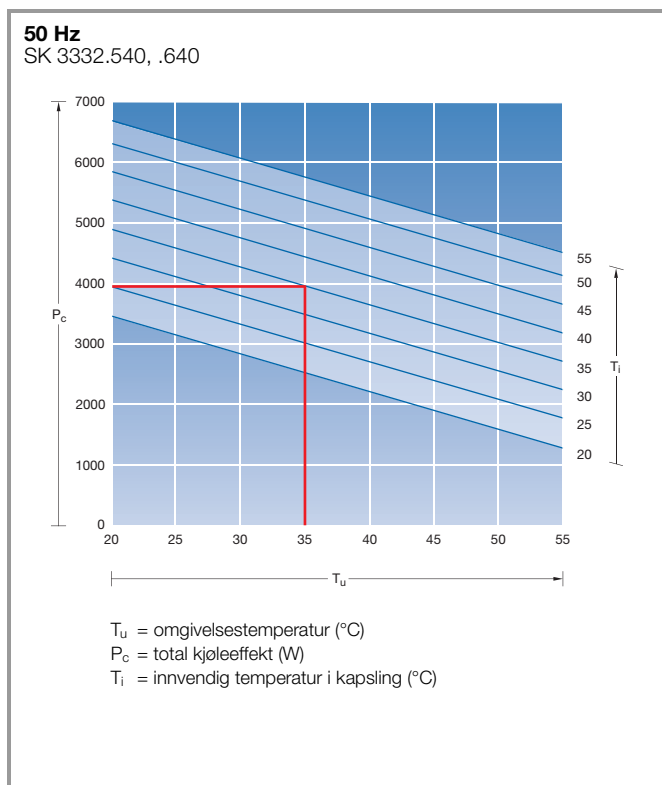


T_u = omgivelsestemperatur (°C)
 P_c = total kjøleeffekt (W)
 T_i = innvendig temperatur i kapsling (°C)

Kjøleaggregater

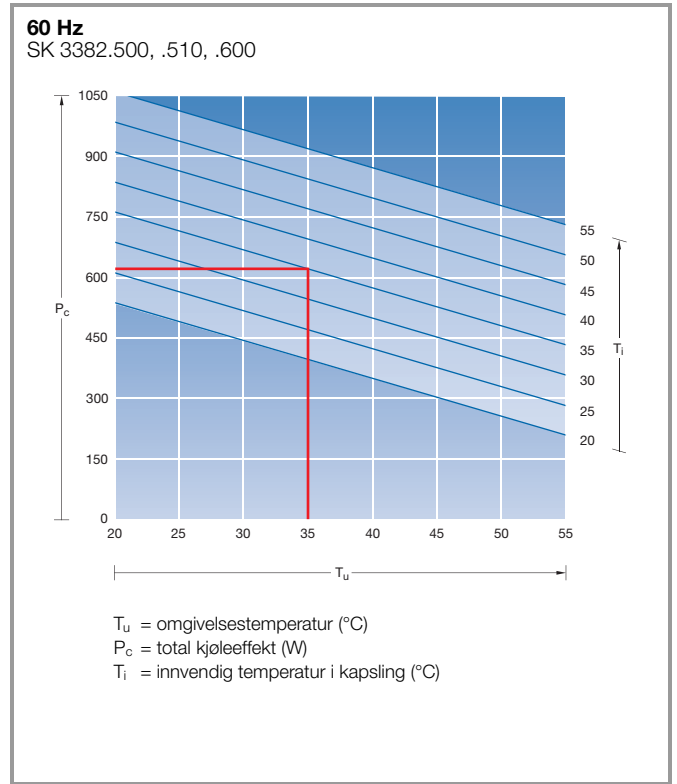
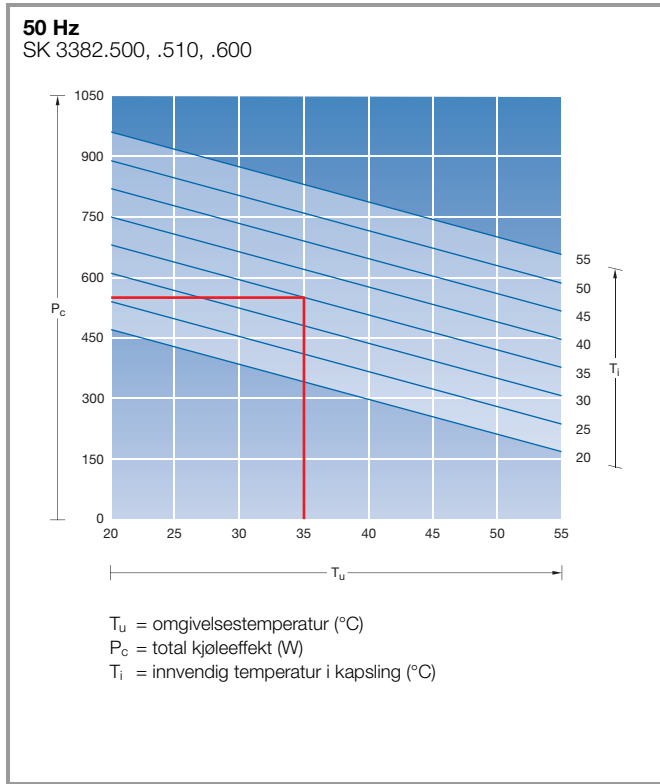
Kjøleaggregater for veggmontering TopTherm Blue e

Effektklasse 4000 W (400/460 V, 3~)

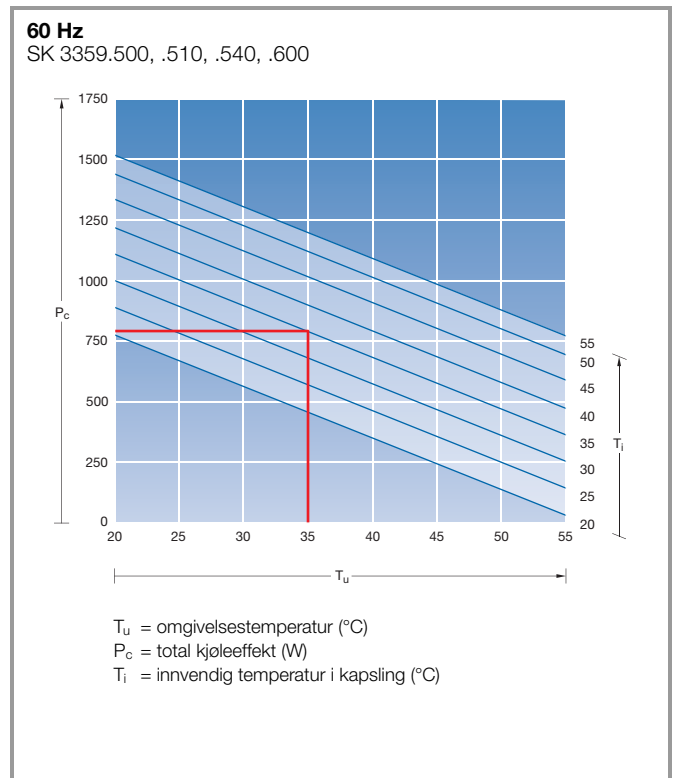
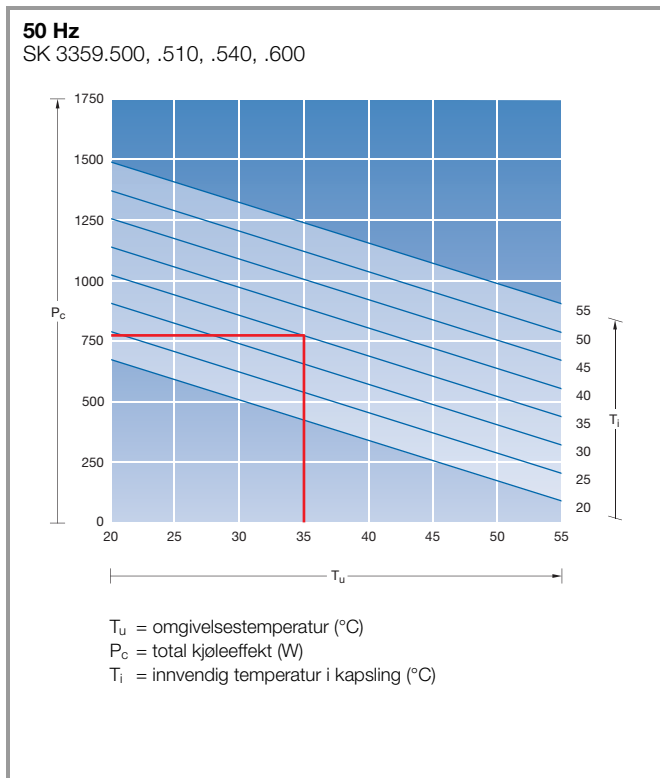


Kjøleaggregater for takmontering TopTherm Blue e

Effektklasse 500 W (115/230 V, 1~)



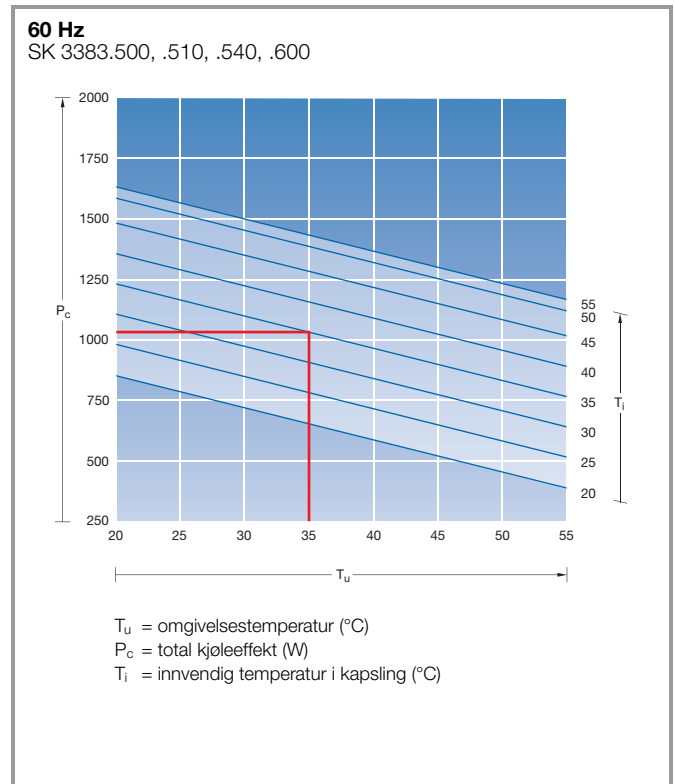
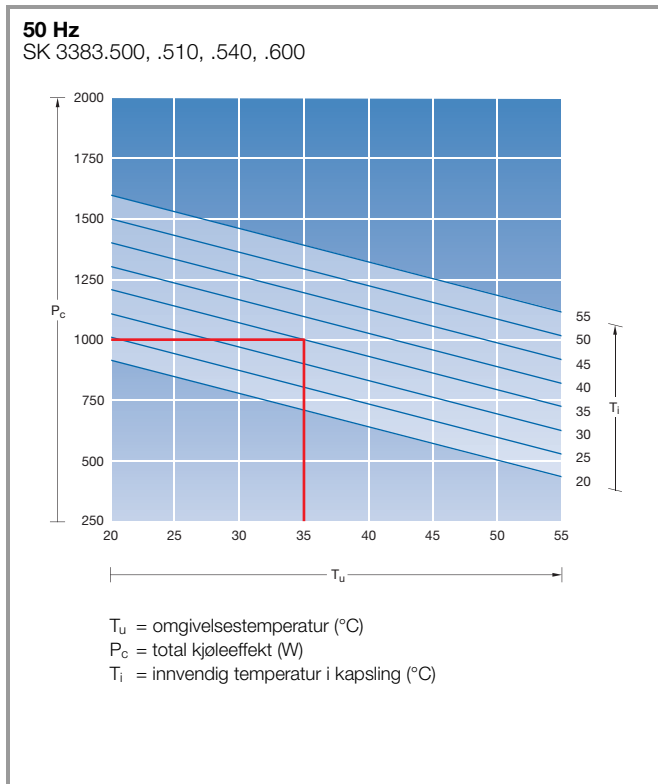
Effektklasse 750 W (115/230 V, 1~, 400 V, 2~)



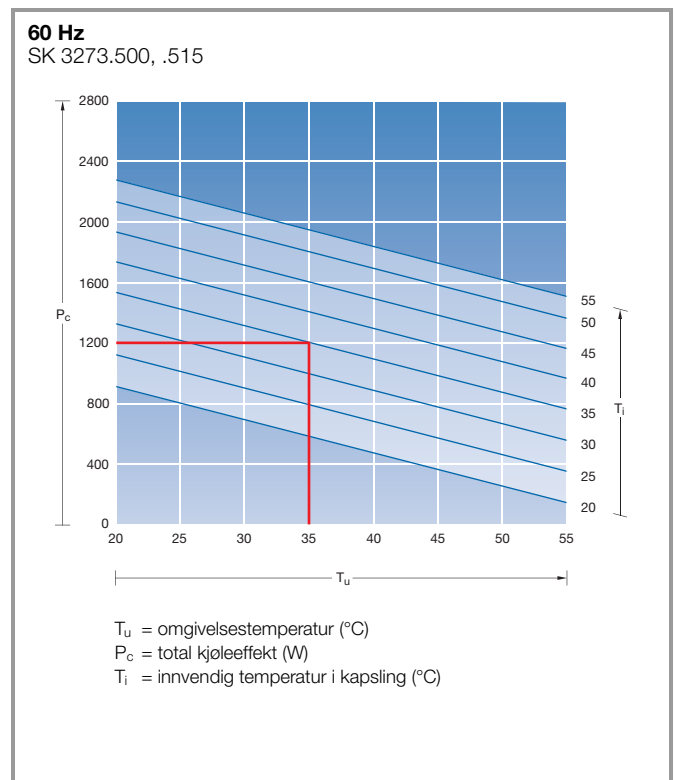
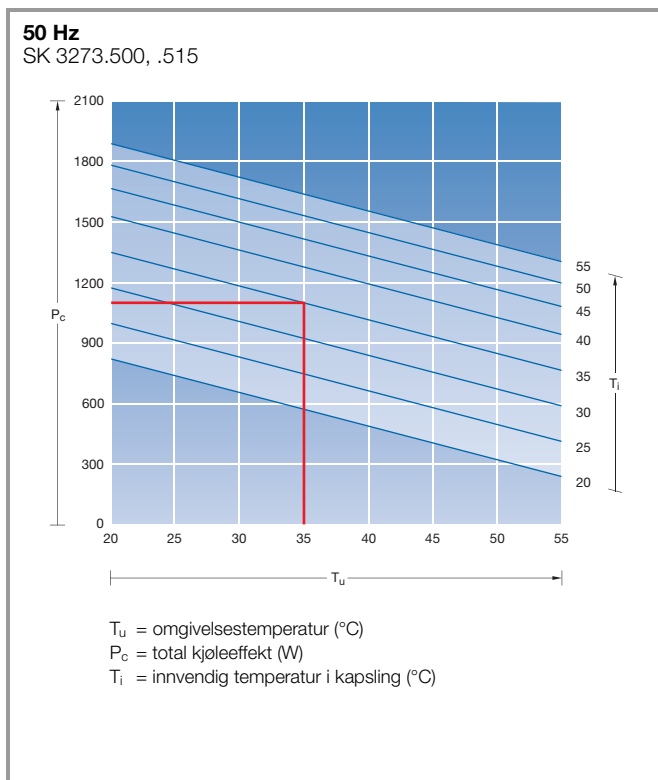
Kjøleaggregater

Kjøleaggregater for takmontering TopTherm Blue e

Effektklasse 1000 W (115/230 V, 1~, 400 V, 2~)

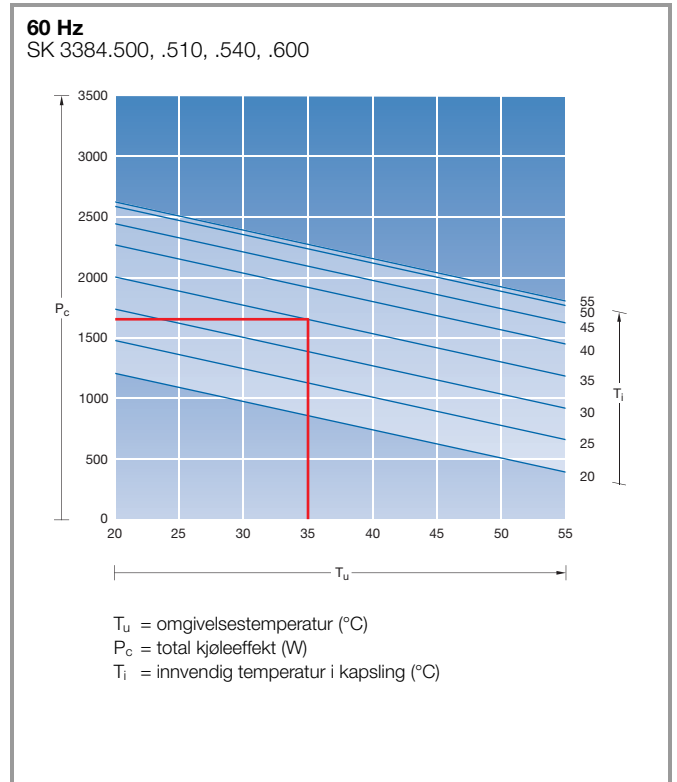
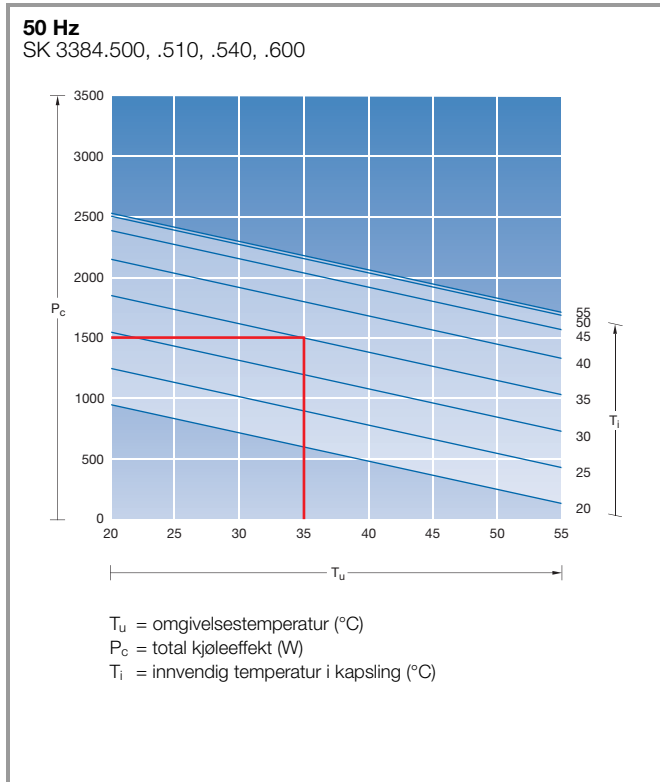


Effektklasse 1100 W (115/230 V, 1~)

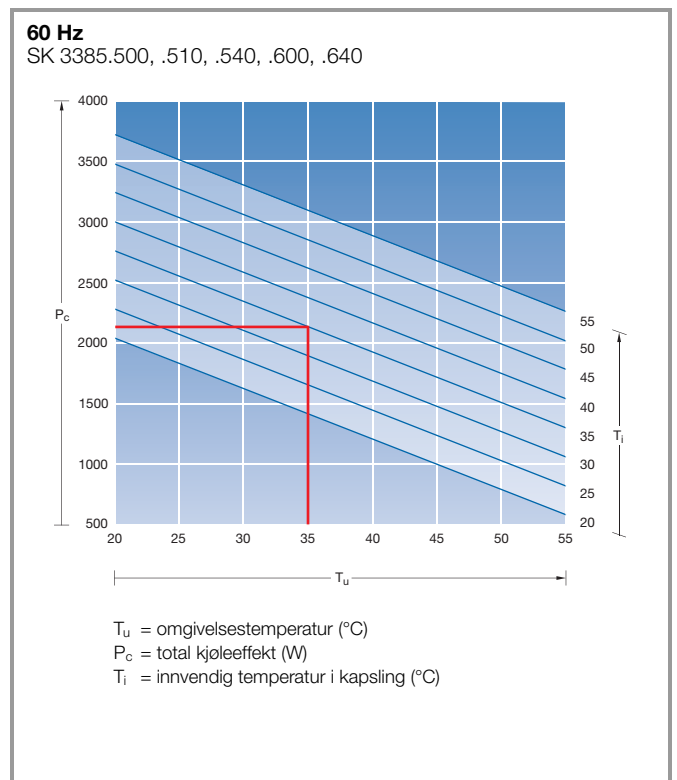
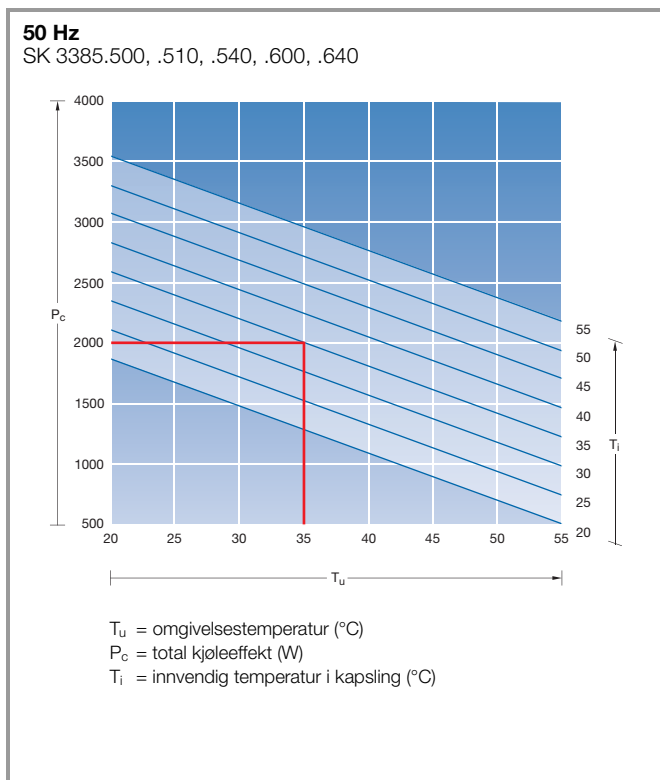


Kjøleaggregater for takmontering TopTherm Blue e

Effektklasse 1500 W (115/230 V, 1~, 400 V, 2~)



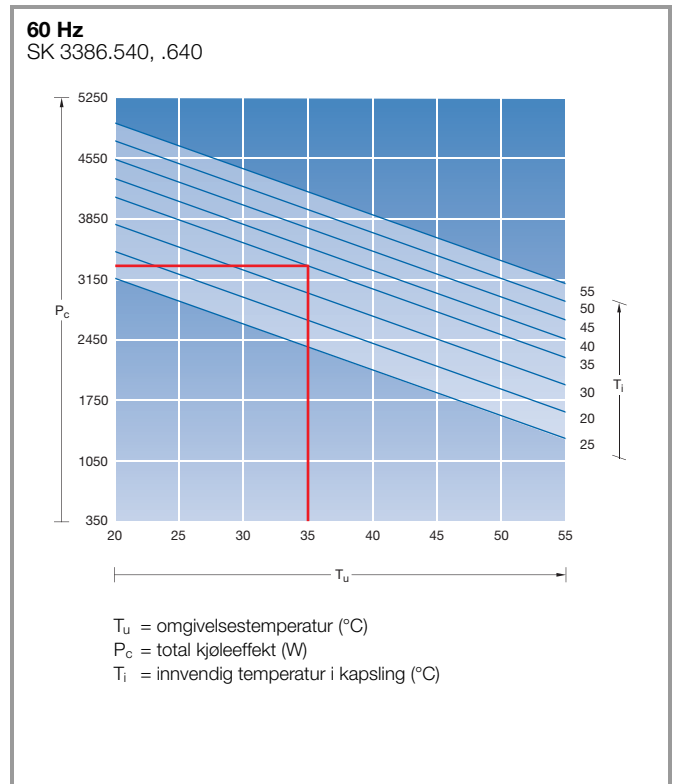
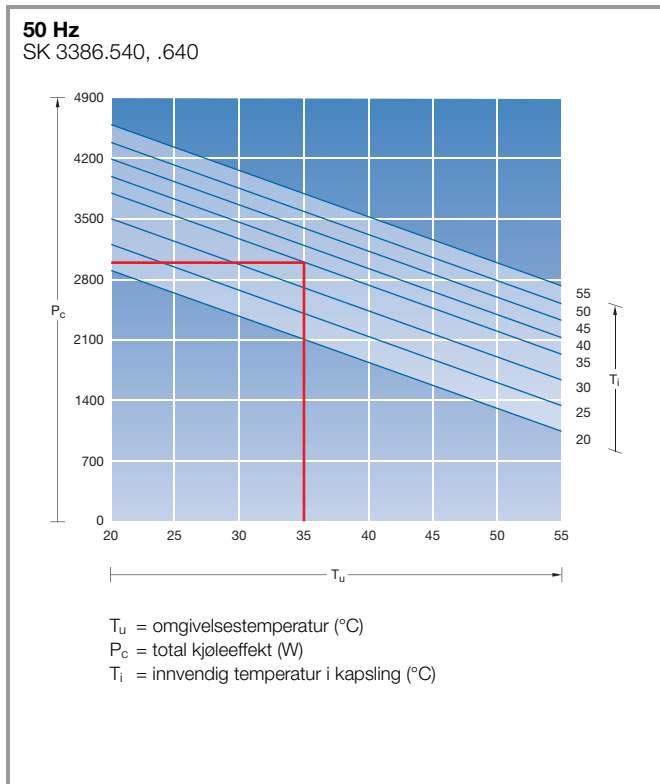
Effektklasse 2000 W (115/230 V, 1~, 400 V, 2~)



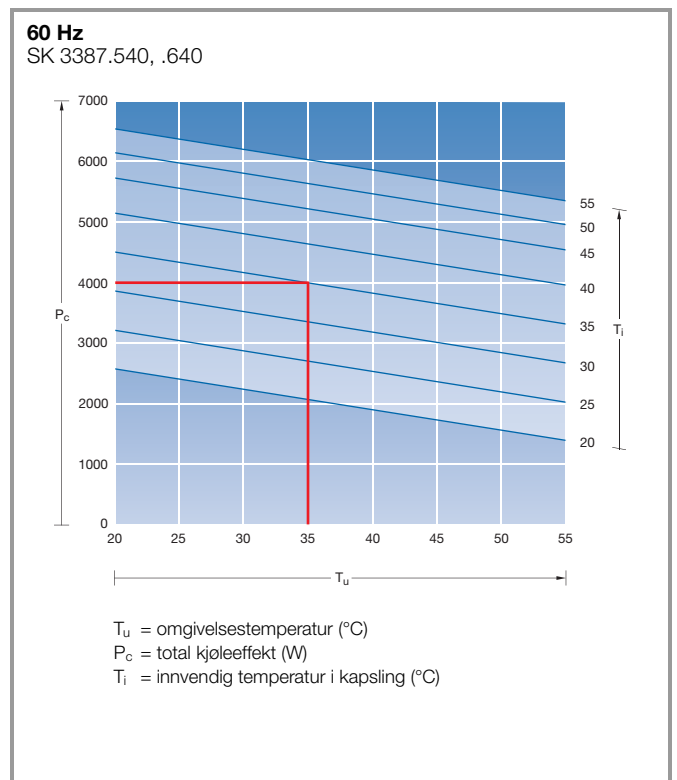
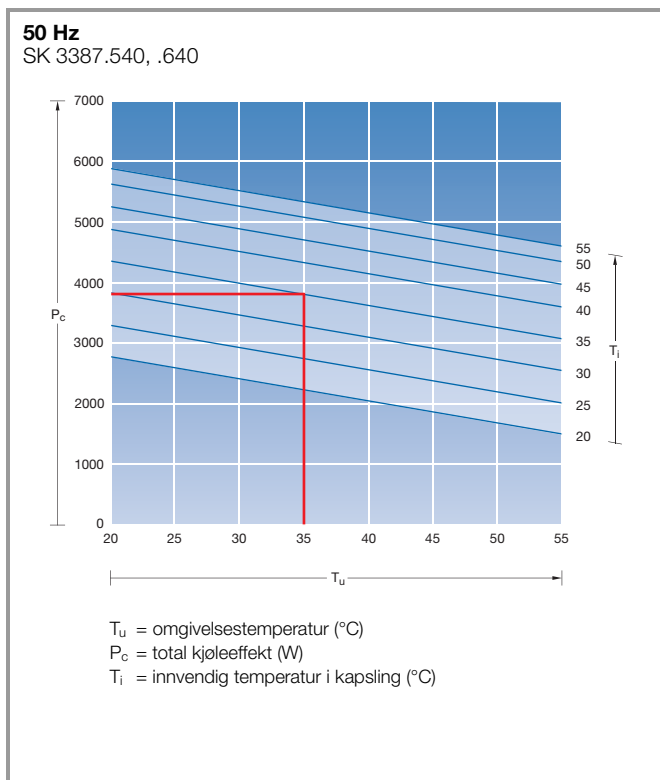
Kjøleaggregater

Kjøleaggregater for takmontering TopTherm Blue e

Effektklasse 3000 W (400/460 V, 3~)

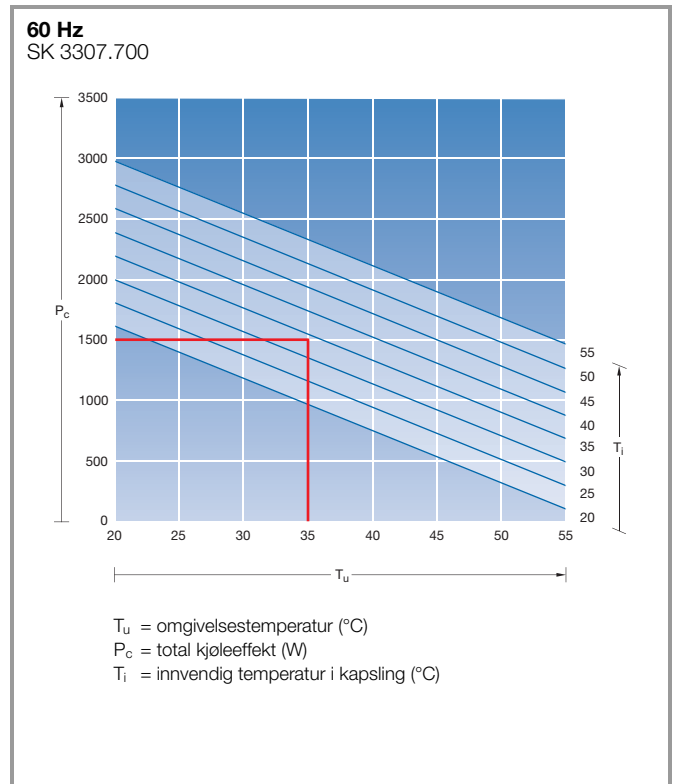
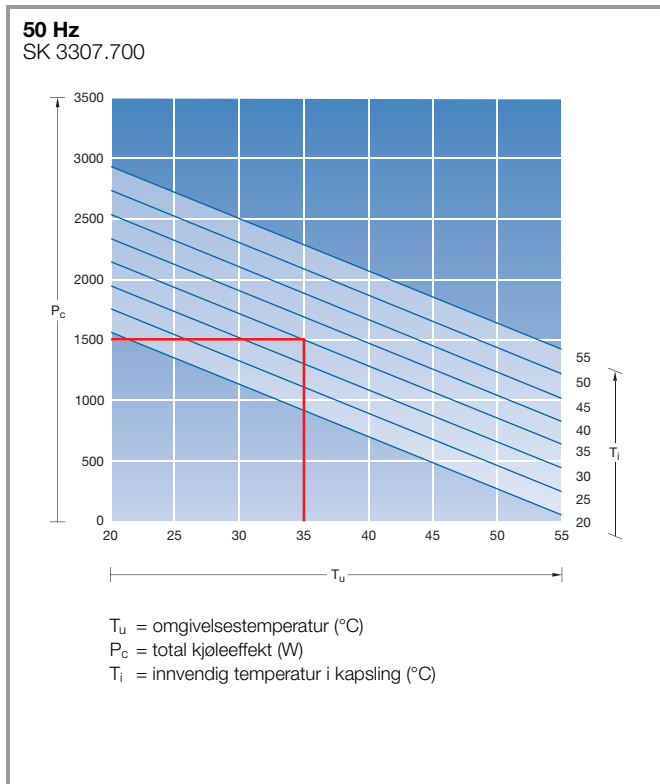


Effektklasse 4000 W (400/460 V, 3~)

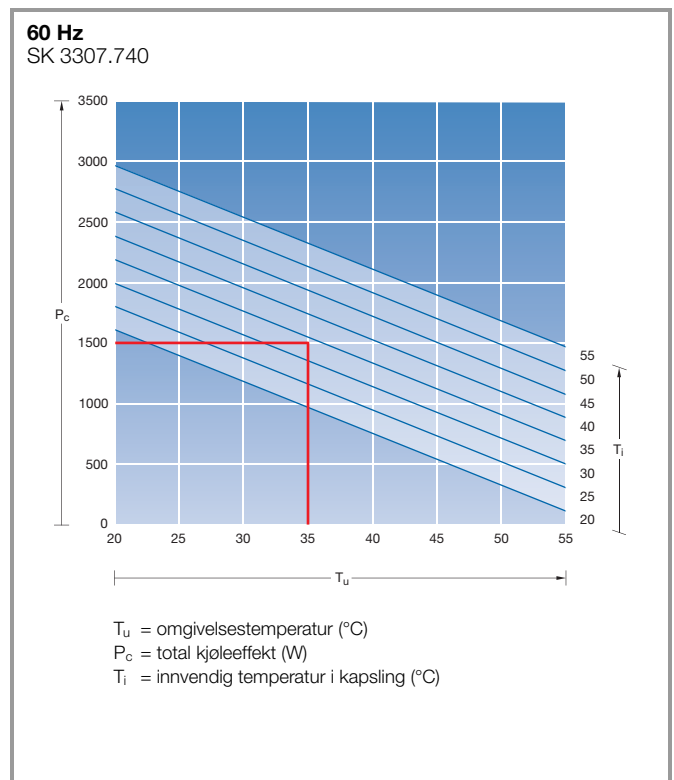
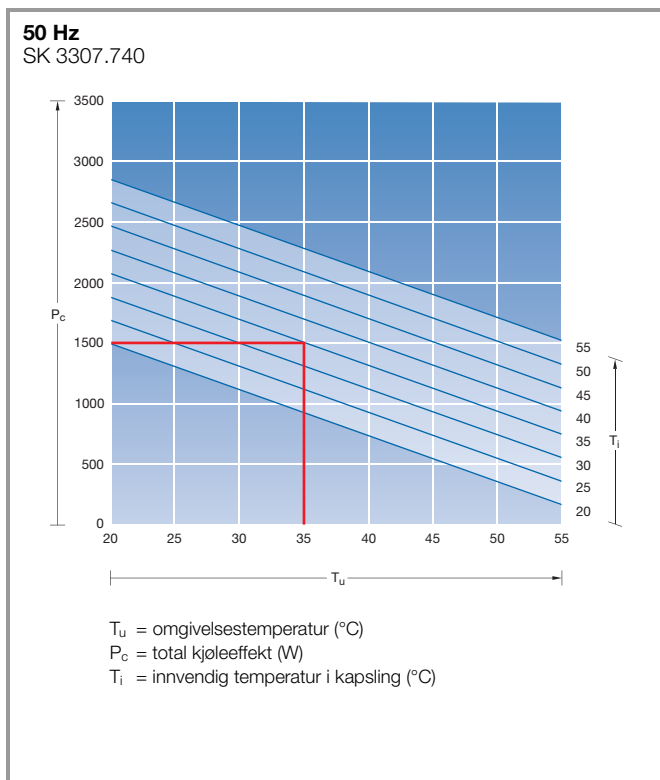


Klima-kjølemodul Blue e

Effektklasse 1500 W (230 V, 1~)



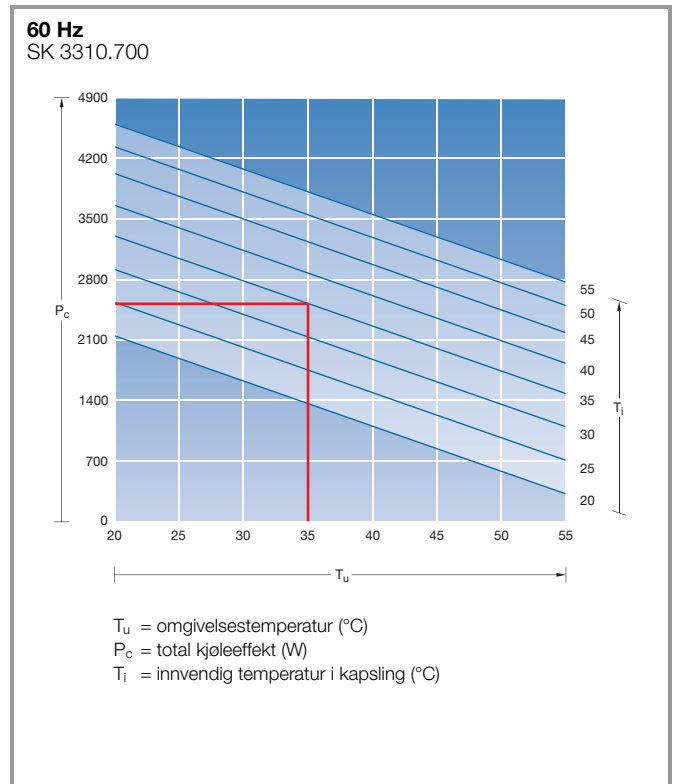
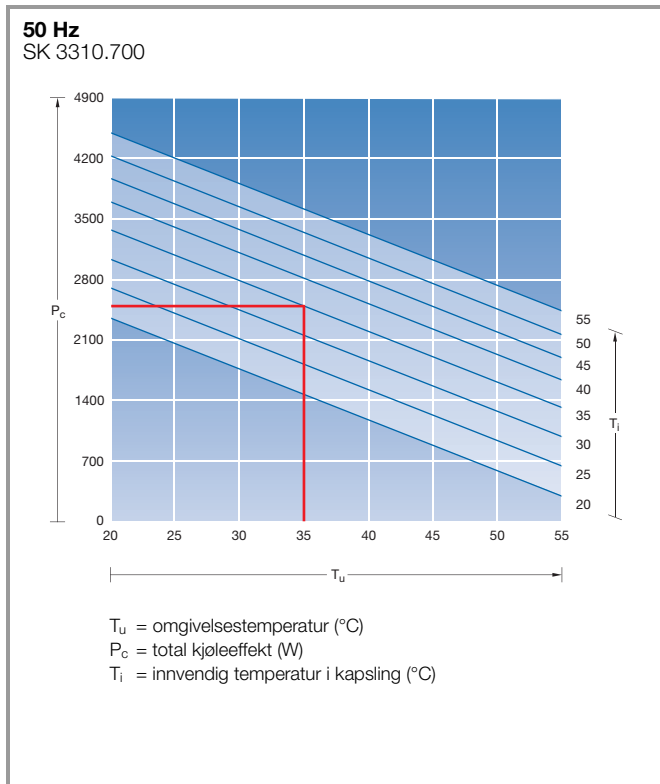
Effektklasse 1500 W (400/460 V, 3~)



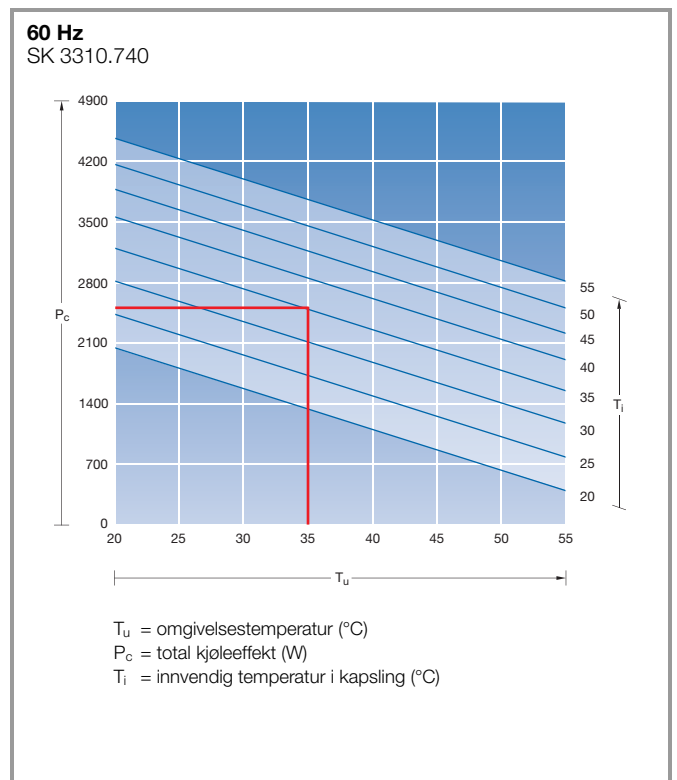
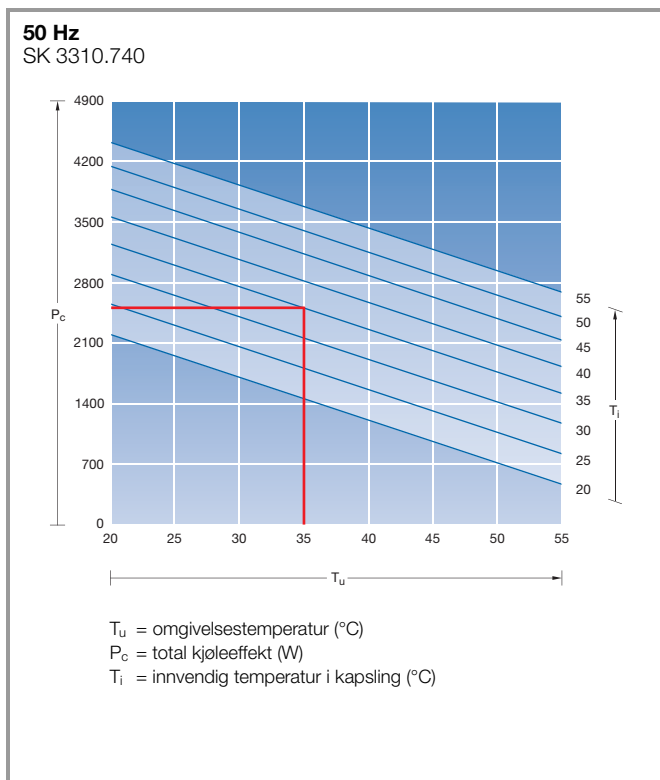
Kjøleaggregater

Klima-kjølemodul Blue e

Effektklasse 2500 W (230 V, 1~)



Effektklasse 2500 W (400/460 V, 3~)



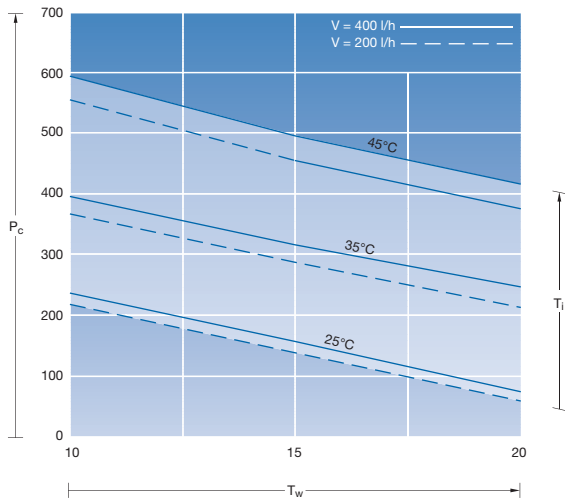
Luft/vann varmeveksler for veggmontering

Effektklasse 300 W

Vannførende deler: Kobber/messing (Cu/CuZn)

50/60 Hz

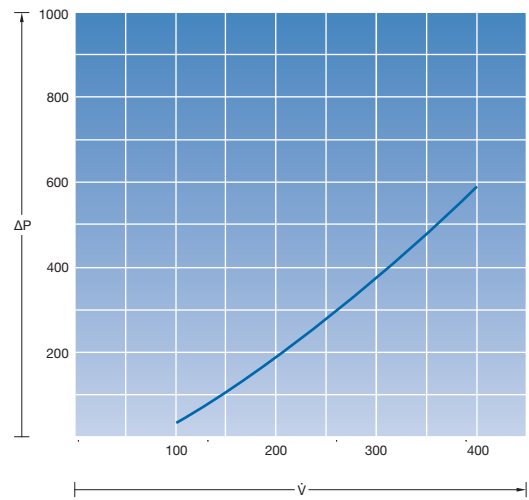
SK 3212.024, .115, .230



T_w = vanntilførsels temperatur (°C)
 P_c = total kjøleeffekt (W)
 T_i = innvendig temperatur i kapsling (°C)

Vannmotstands diagram

SK 3212.024, .115, .230



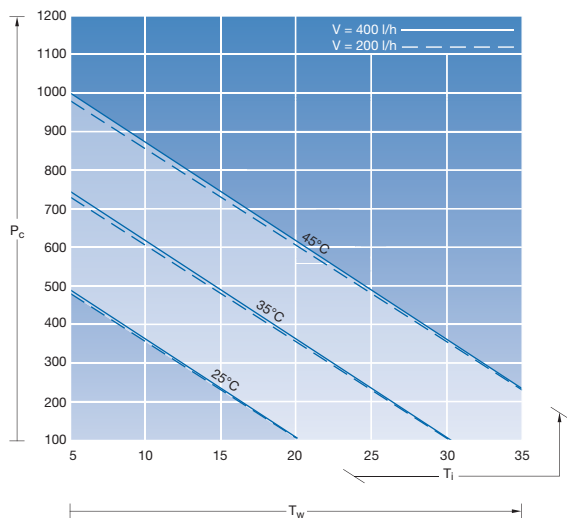
\dot{V} = vannmengde (l/h)
 ΔP = vannmotstand (mbar)

Effektklasse 600 W

Vannførende deler: Kobber/messing (Cu/CuZn)

50/60 Hz

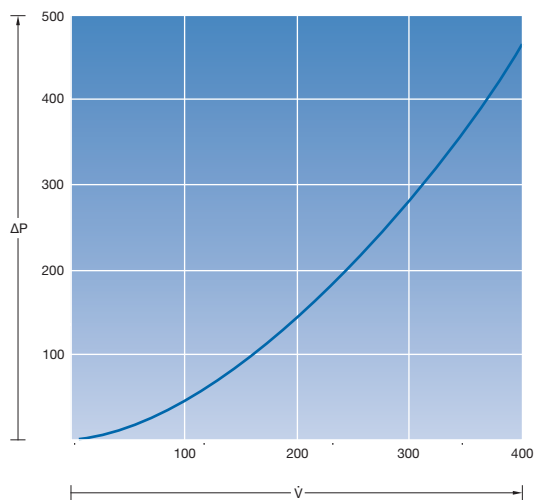
SK 3214.100



T_w = vanntilførsels temperatur (°C)
 P_c = total kjøleeffekt (W)
 T_i = innvendig temperatur i kapsling (°C)

Vannmotstands diagram

SK 3214.100

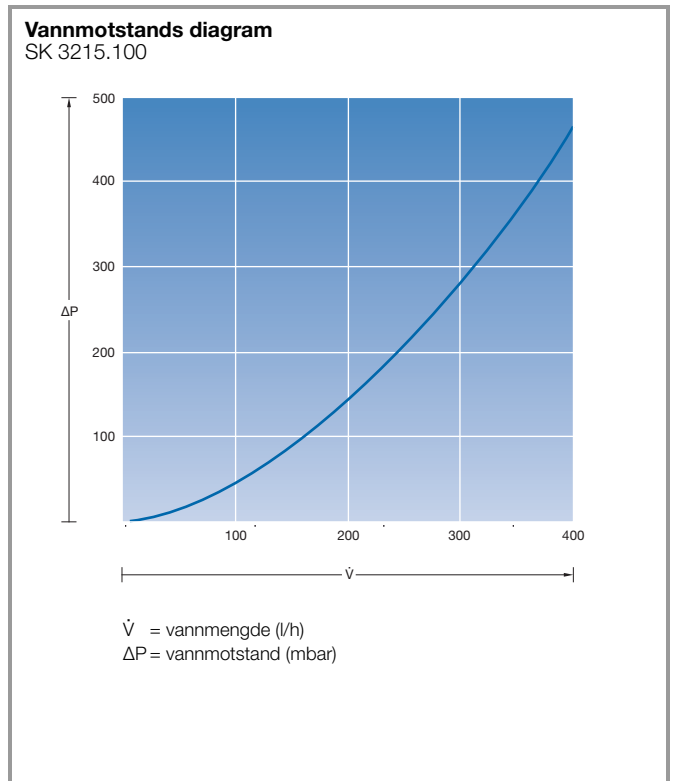
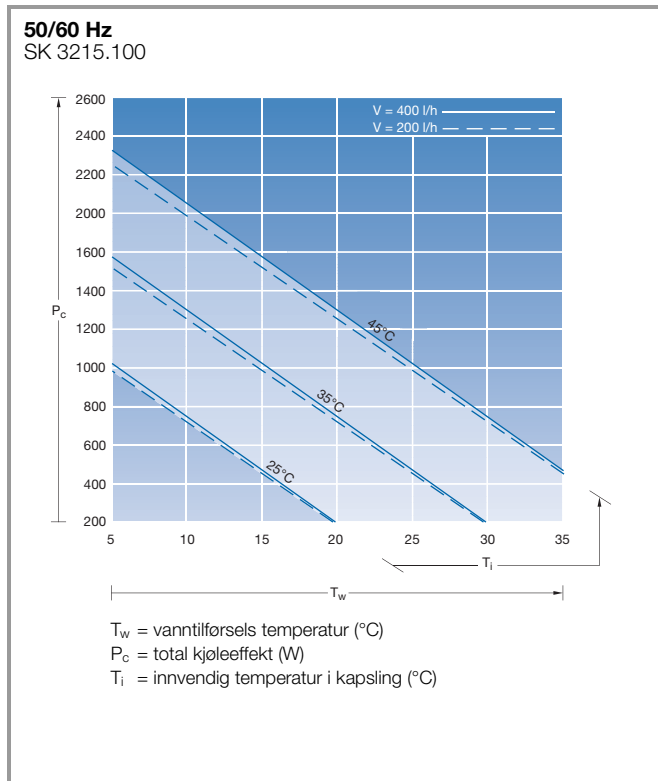


\dot{V} = vannmengde (l/h)
 ΔP = vannmotstand (mbar)

Luft/vann varmeveksler for veggmontering

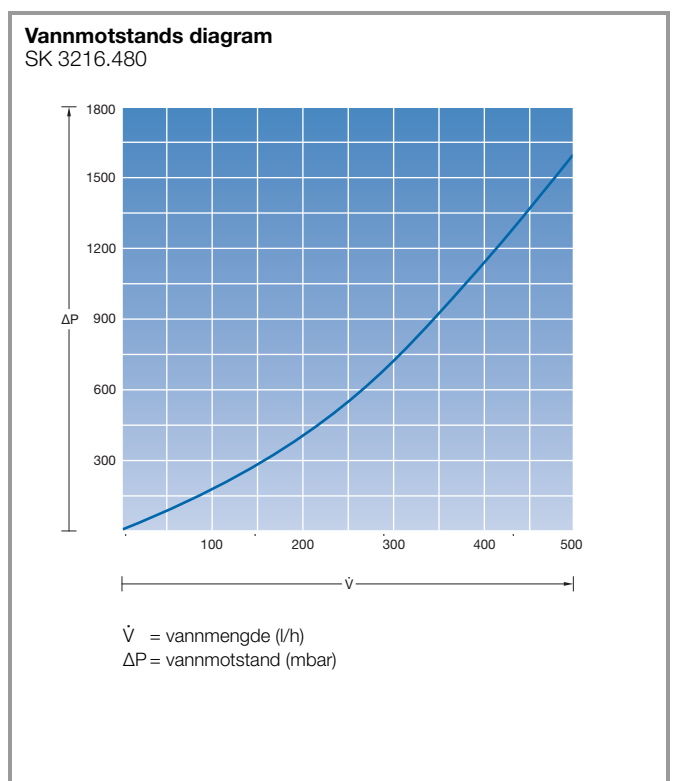
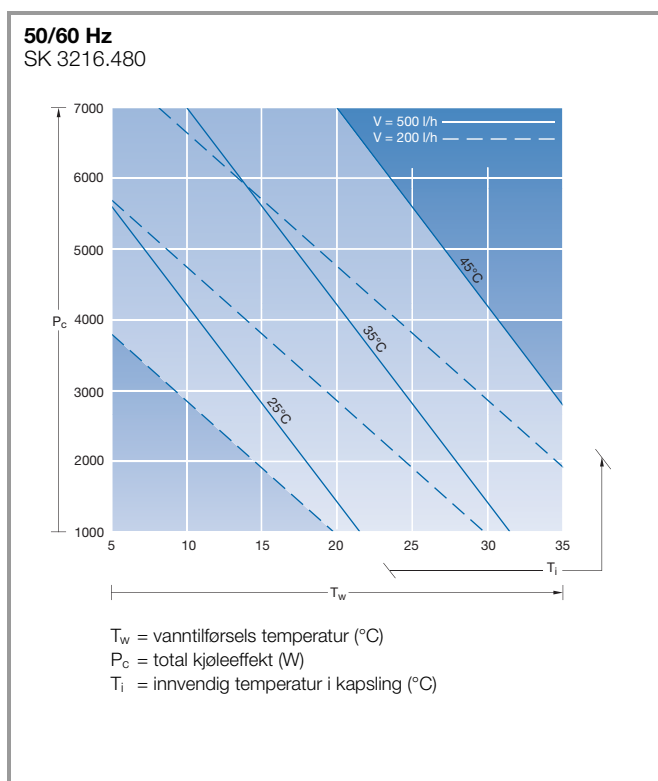
Effektklasse 1250 W

Vannførende deler: Kobber/messing (Cu/CuZn)



Effektklasse 7000 W

Vannførende deler: Kobber/messing (Cu/CuZn)



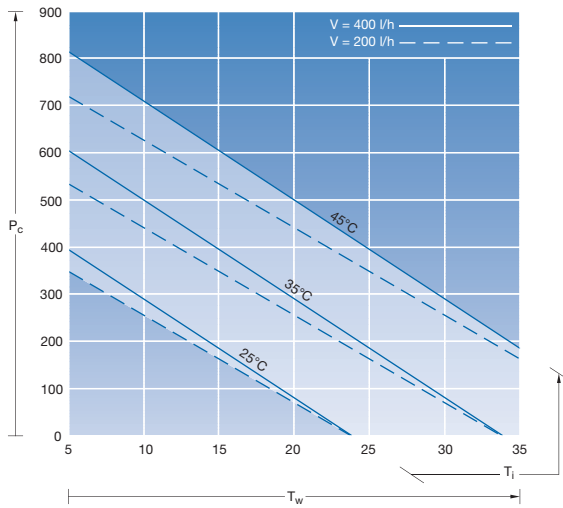
Luft/vann varmeveksler for veggmontering

Effektklasse 500 W

Vannførende deler: Kobber/messing (Cu/CuZn)

50 Hz

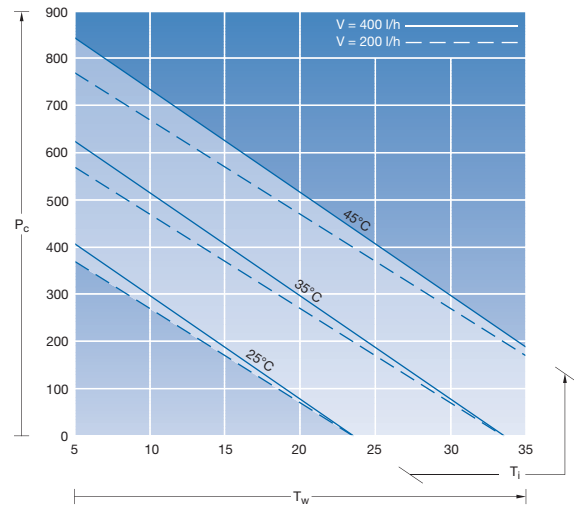
SK 3363.100, .500



T_w = vanntilførsels temperatur (°C)
 P_c = total kjøleeffekt (W)
 T_i = innvendig temperatur i kapsling (°C)

60 Hz

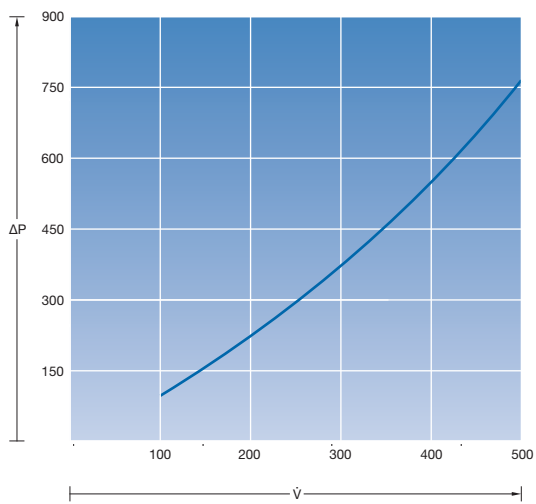
SK 3363.100, .500



T_w = vanntilførsels temperatur (°C)
 P_c = total kjøleeffekt (W)
 T_i = innvendig temperatur i kapsling (°C)

Vannmotstands diagram

SK 3363.100, .500



\dot{V} = vannmengde (l/h)
 ΔP = vannmotstand (mbar)

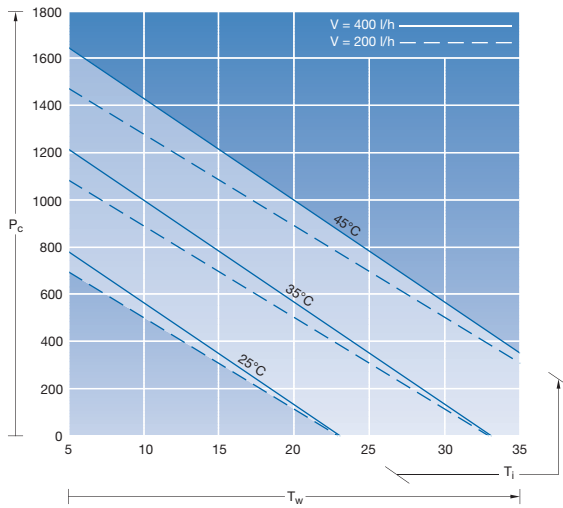
Luft/vann varmeveksler for veggmontering

Effektklasse 1000 W

Vannførende deler: Kobber/messing (Cu/CuZn)

50 Hz

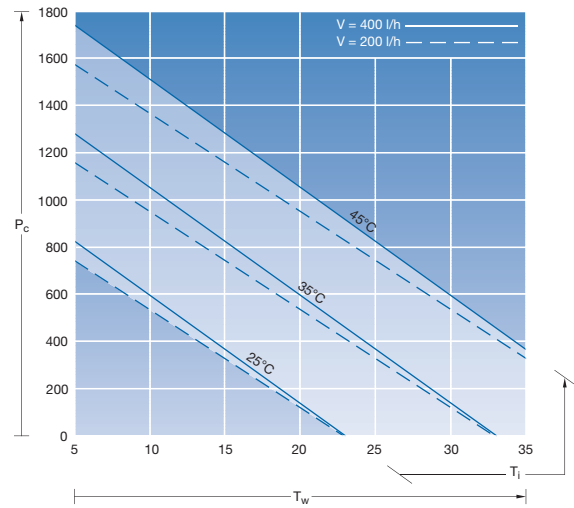
SK 3364.100, .500



T_w = vanntilførsels temperatur (°C)
 P_c = total kjøleeffekt (W)
 T_i = innvendig temperatur i kapsling (°C)

60 Hz

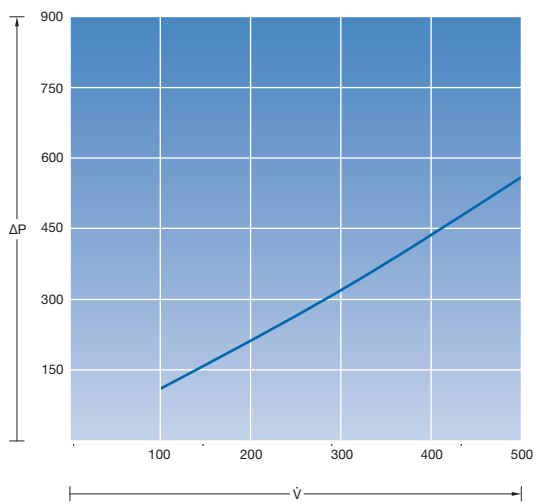
SK 3364.100, .500



T_w = vanntilførsels temperatur (°C)
 P_c = total kjøleeffekt (W)
 T_i = innvendig temperatur i kapsling (°C)

Vannmotstands diagram

SK 3364.100, .500



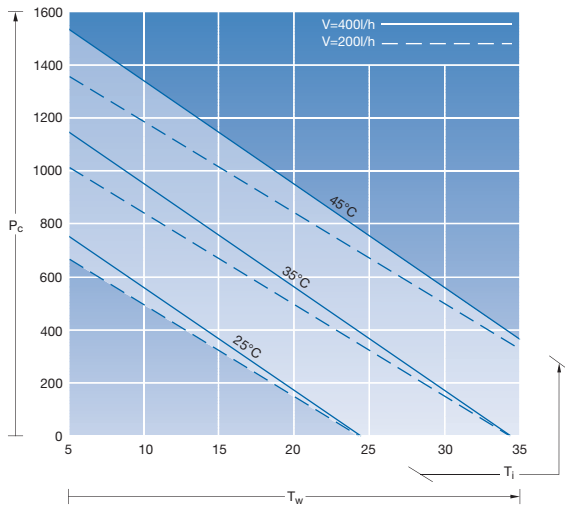
\dot{V} = vannmengde (l/h)
 ΔP = vannmotstand (mbar)

Luft/vann varmeveksler for veggmontering

Effektklasse 1000 W

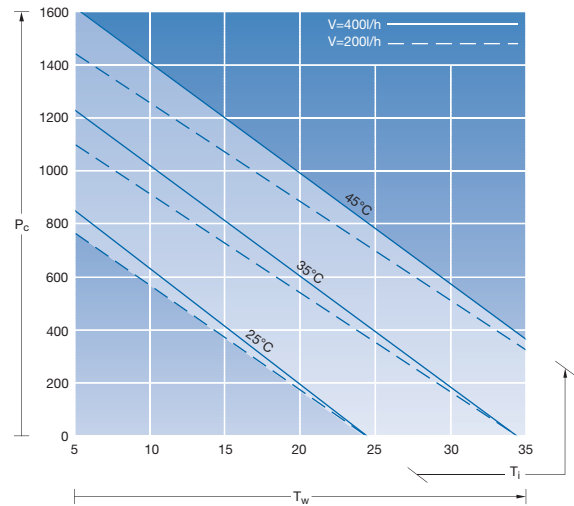
Vannførende deler: Rustfritt stål (1.4571)

50 Hz
SK 3364.504



T_w = vanntilførsels temperatur (°C)
 P_c = total kjøleeffekt (W)
 T_i = innvendig temperatur i kapsling (°C)

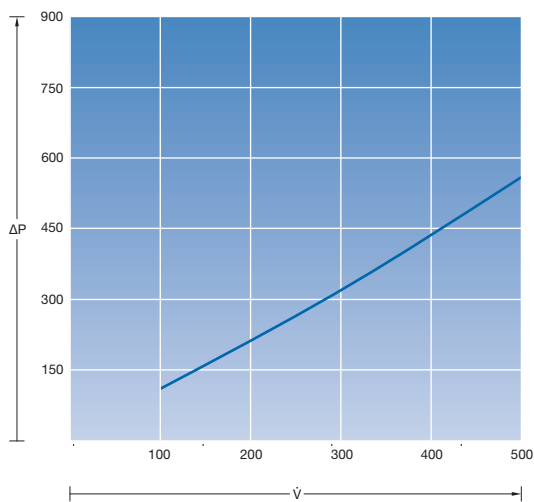
60 Hz
SK 3364.504



T_w = vanntilførsels temperatur (°C)
 P_c = total kjøleeffekt (W)
 T_i = innvendig temperatur i kapsling (°C)

Vannmotstands diagram

SK 3364.504



\dot{V} = vannmengde (l/h)
 ΔP = vannmotstand (mbar)

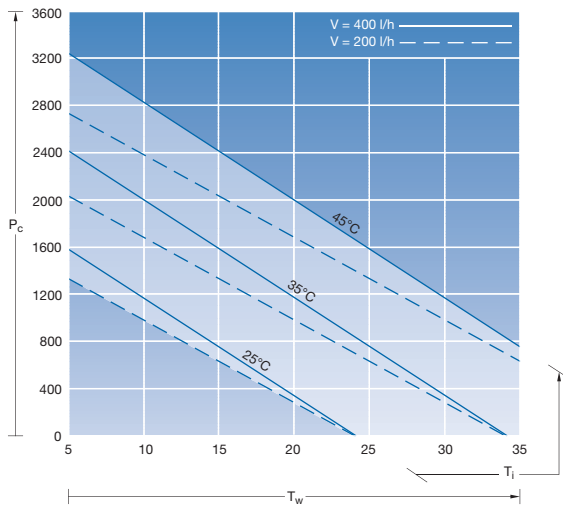
Luft/vann varmeveksler for veggmontering

Effektklasse 2000 W

Vannførende deler: Kobber/messing (Cu/CuZn)

50 Hz

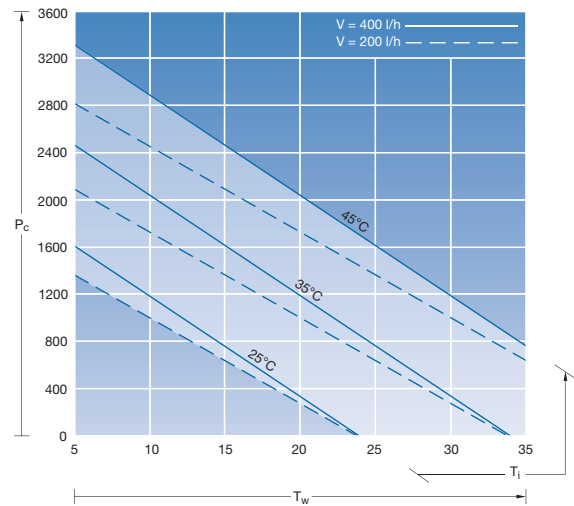
SK 3373.100, .500



T_w = vanntilførsels temperatur (°C)
 P_c = total kjøleeffekt (W)
 T_i = innvendig temperatur i kapsling (°C)

60 Hz

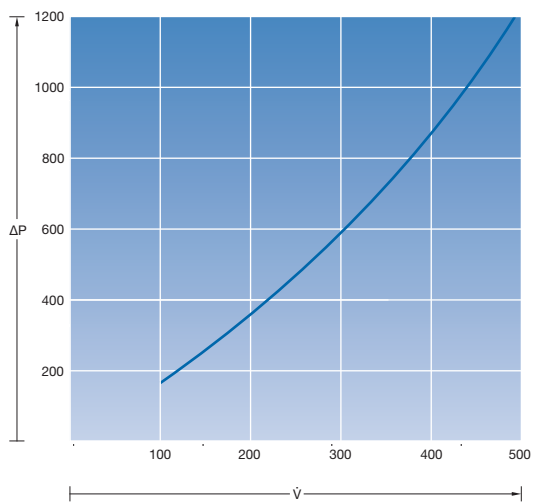
SK 3373.100, .500



T_w = vanntilførsels temperatur (°C)
 P_c = total kjøleeffekt (W)
 T_i = innvendig temperatur i kapsling (°C)

Vannmotstands diagram

SK 3373.100, .500



\dot{V} = vannmengde (l/h)
 ΔP = vannmotstand (mbar)

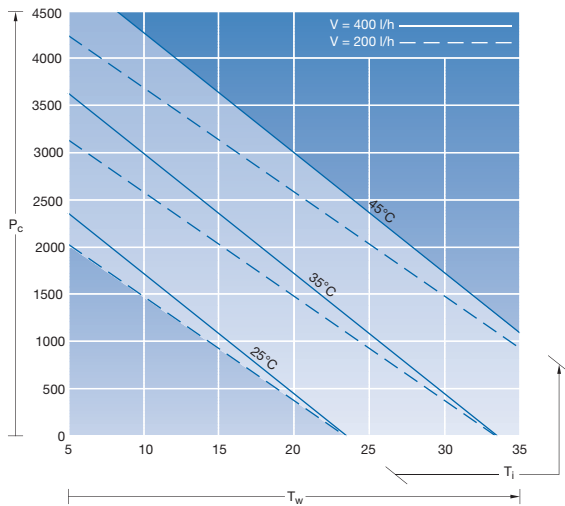
Luft/vann varmeveksler for veggmontering

Effektklasse 3000 W

Vannførende deler: Kobber/messing (Cu/CuZn)

50 Hz

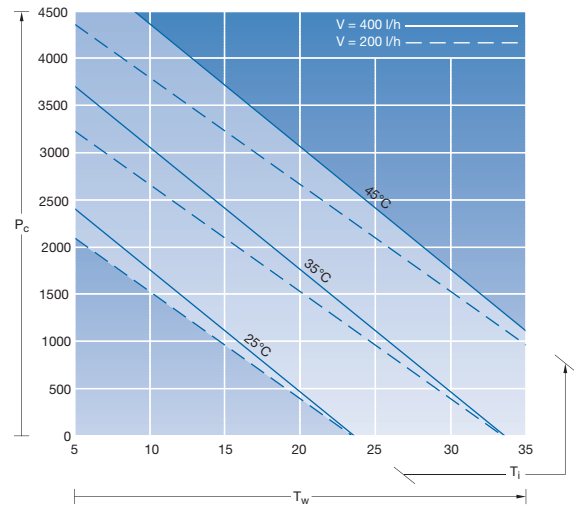
SK 3374.100, .500



T_w = vanntilførsels temperatur (°C)
 P_c = total kjøleeffekt (W)
 T_i = innvendig temperatur i kapsling (°C)

60 Hz

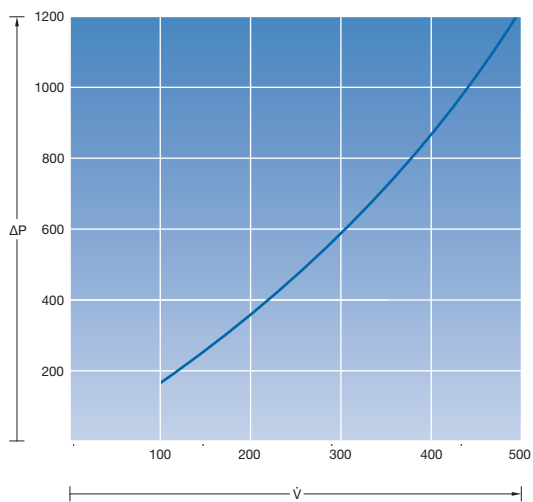
SK 3374.100, .500



T_w = vanntilførsels temperatur (°C)
 P_c = total kjøleeffekt (W)
 T_i = innvendig temperatur i kapsling (°C)

Vannmotstands diagram

SK 3374.100, .500



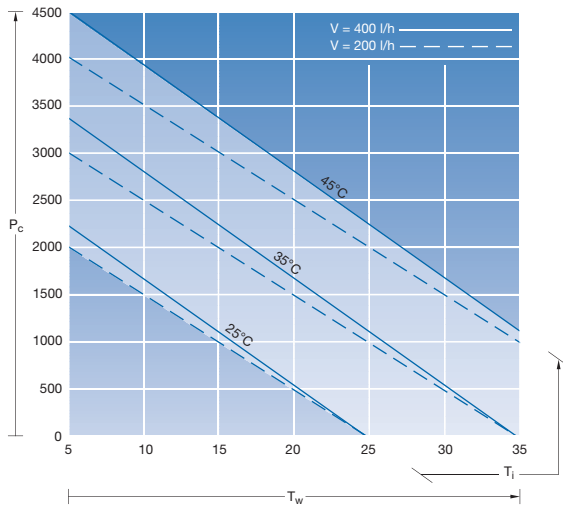
\dot{V} = vannmengde (l/h)
 ΔP = vannmotstand (mbar)

Luft/vann varmeveksler for veggmontering

Effektklasse 2500 W

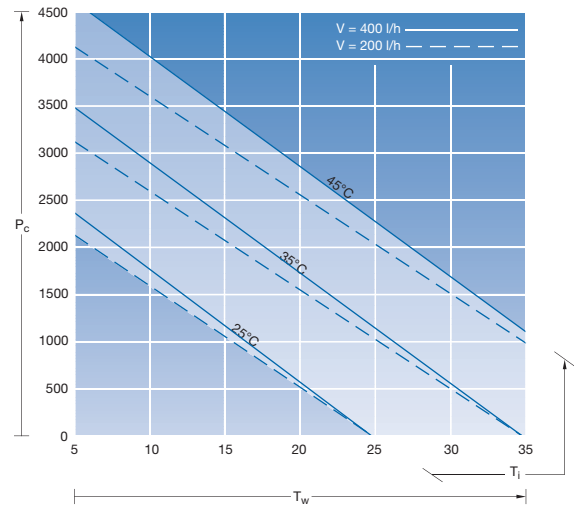
Vannførende deler: Rustfritt stål (1.4571)

50 Hz
SK 3374.504



T_w = vanntilførsels temperatur (°C)
 P_c = total kjøleeffekt (W)
 T_i = innvendig temperatur i kapsling (°C)

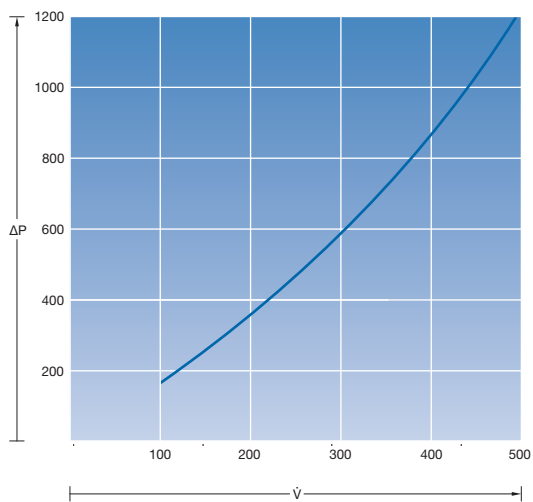
60 Hz
SK 3374.504



T_w = vanntilførsels temperatur (°C)
 P_c = total kjøleeffekt (W)
 T_i = innvendig temperatur i kapsling (°C)

Vannmotstands diagram

SK 3374.504



\dot{V} = vannmengde (l/h)
 ΔP = vannmotstand (mbar)

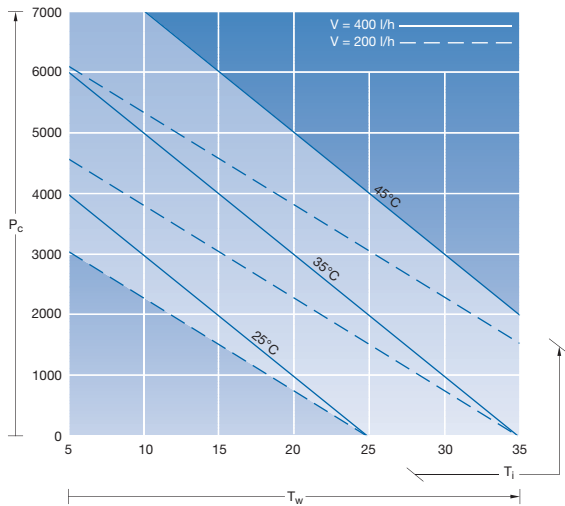
Luft/vann varmeveksler for veggmontering

Effektklasse 5000 W

Vannførende deler: Kobber/messing (Cu/CuZn)

50 Hz

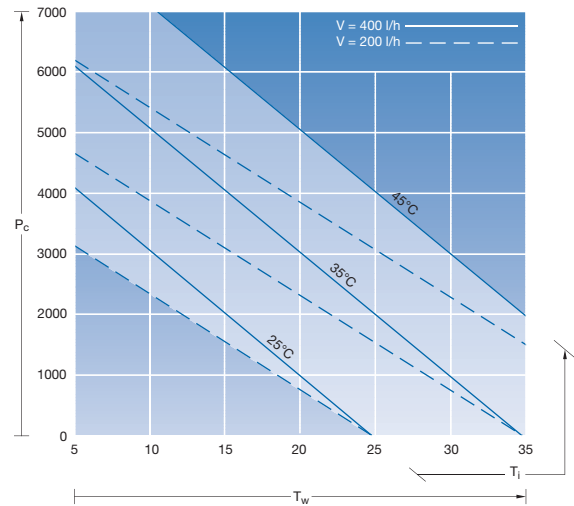
SK 3375.100, .500



T_w = vanntilførsels temperatur (°C)
 P_c = total kjøleeffekt (W)
 T_i = innvendig temperatur i kapsling (°C)

60 Hz

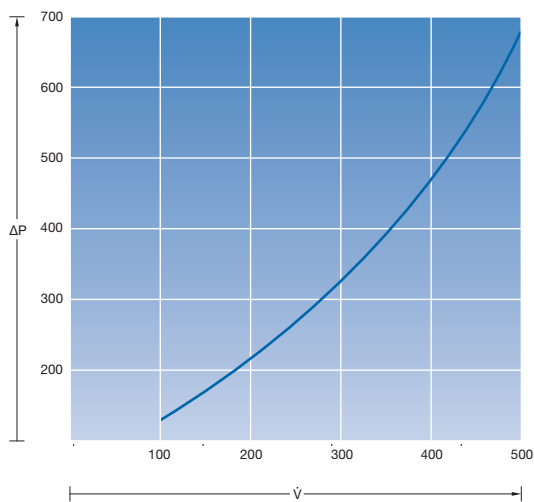
SK 3375.100, .500



T_w = vanntilførsels temperatur (°C)
 P_c = total kjøleeffekt (W)
 T_i = innvendig temperatur i kapsling (°C)

Vannmotstands diagram

SK 3375.100, .500



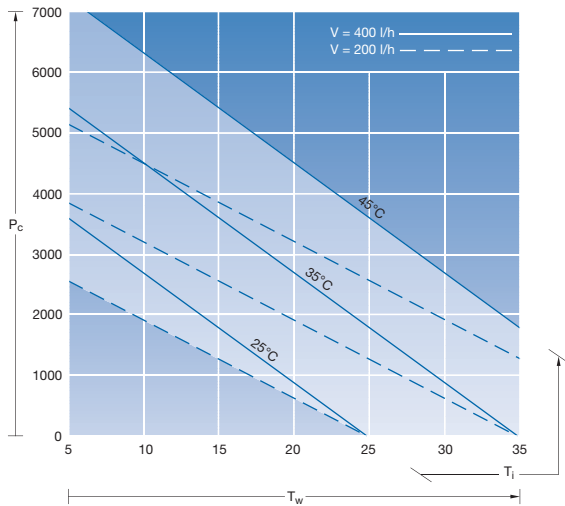
\dot{V} = vannmengde (l/h)
 ΔP = vannmotstand (mbar)

Luft/vann varmeveksler for veggmontering

Effektklasse 4000 W

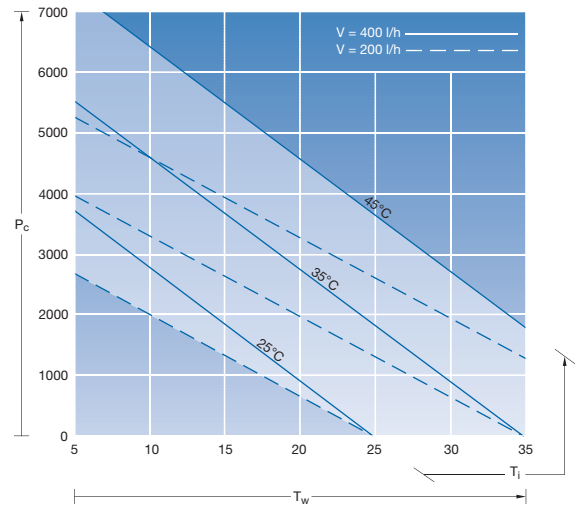
Vannførende deler: Rustfritt stål (1.4571)

50 Hz
SK 3375.504



T_w = vanntilførsels temperatur (°C)
 P_c = total kjøleeffekt (W)
 T_i = innvendig temperatur i kapsling (°C)

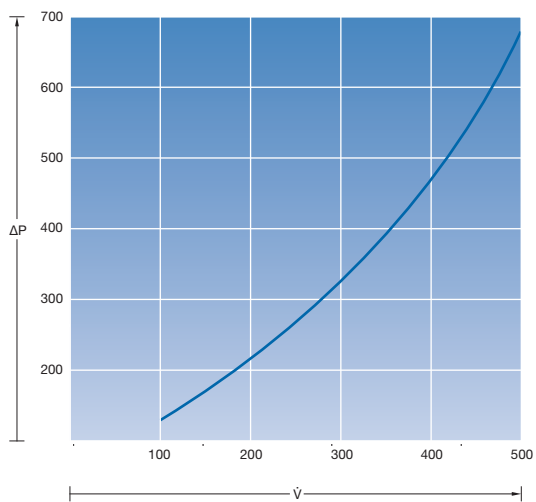
60 Hz
SK 3375.504



T_w = vanntilførsels temperatur (°C)
 P_c = total kjøleeffekt (W)
 T_i = innvendig temperatur i kapsling (°C)

Vannmotstands diagram

SK 3375.504



\dot{V} = vannmengde (l/h)
 ΔP = vannmotstand (mbar)

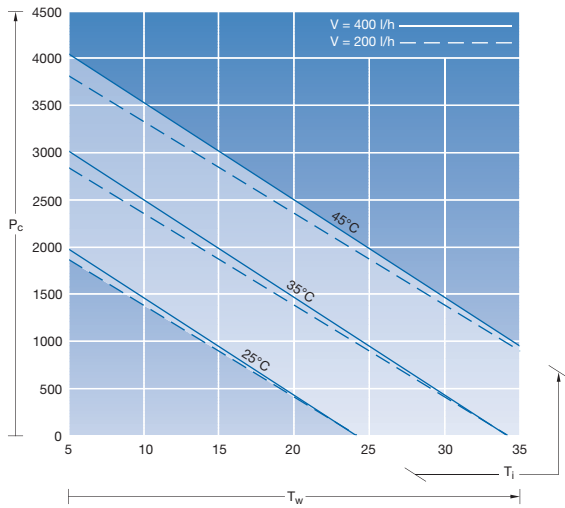
Luft/vann varmeveksler for takmontering

Effektklasse 2500 W

Vannførende deler: Kobber/messing (Cu/CuZn)

50 Hz

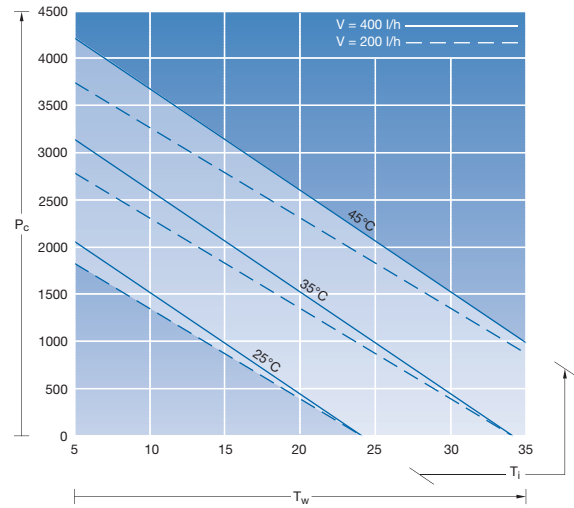
SK 3209.100, .500



T_w = vanntilførsels temperatur (°C)
 P_c = total kjøleeffekt (W)
 T_i = innvendig temperatur i kapsling (°C)

60 Hz

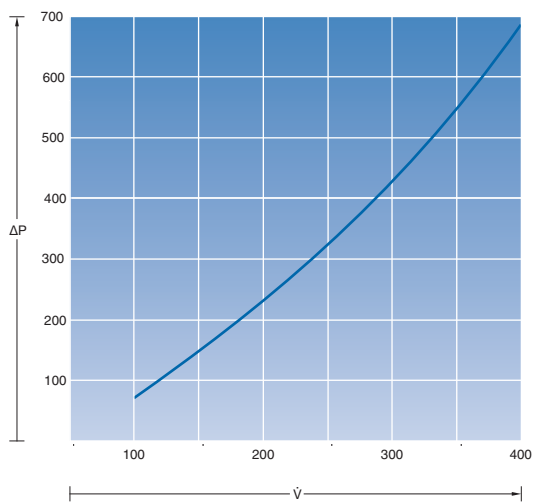
SK 3209.100, .500



T_w = vanntilførsels temperatur (°C)
 P_c = total kjøleeffekt (W)
 T_i = innvendig temperatur i kapsling (°C)

Vannmotstands diagram

SK 3209.100, .500



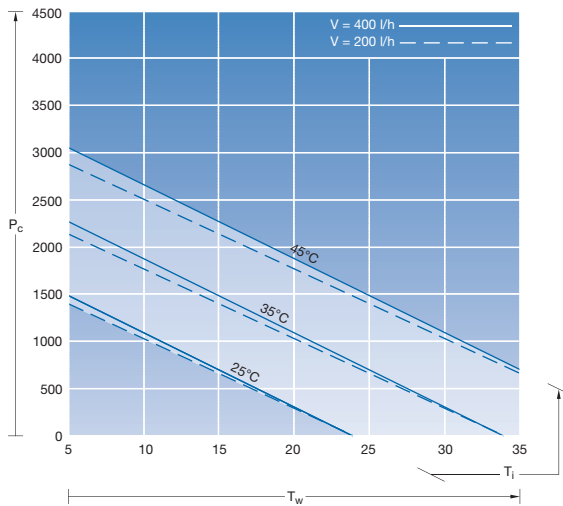
\dot{V} = vannmengde (l/h)
 ΔP = vannmotstand (mbar)

Luft/vann varmeveksler for takmontering

Effektklasse 1875 W

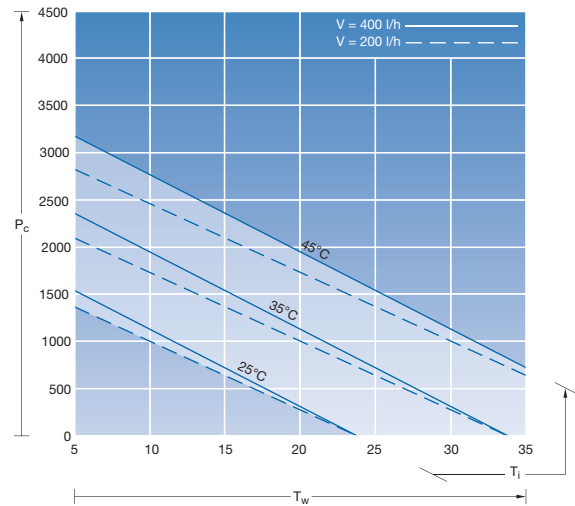
Vannførende deler: Rustfritt stål (1.4571)

50 Hz
SK 3209.504



T_w = vanntilførsels temperatur (°C)
 P_c = total kjøleeffekt (W)
 T_i = innvendig temperatur i kapsling (°C)

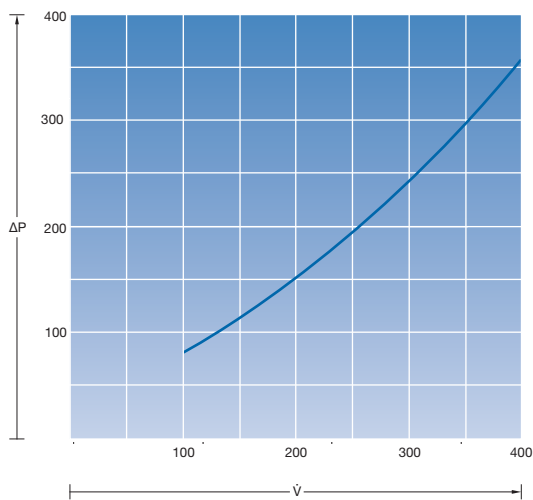
60 Hz
SK 3209.504



T_w = vanntilførsels temperatur (°C)
 P_c = total kjøleeffekt (W)
 T_i = innvendig temperatur i kapsling (°C)

Vannmotstands diagram

SK 3209.504



\dot{V} = vannmengde (l/h)
 ΔP = vannmotstand (mbar)

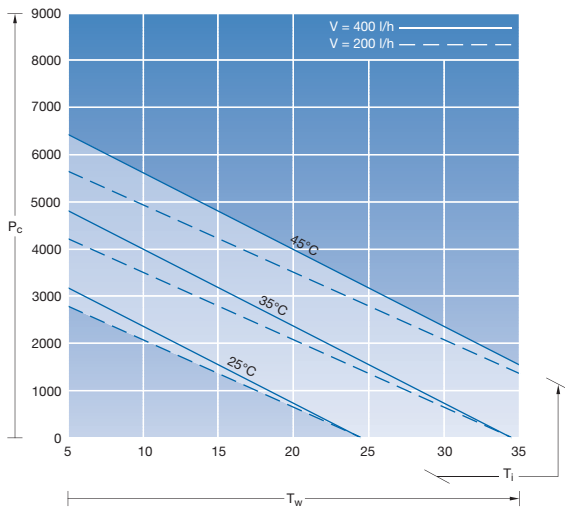
Luft/vann varmeveksler for takmontering

Effektklasse 4000 W

Vannførende deler: Kobber/messing (Cu/CuZn)

50 Hz

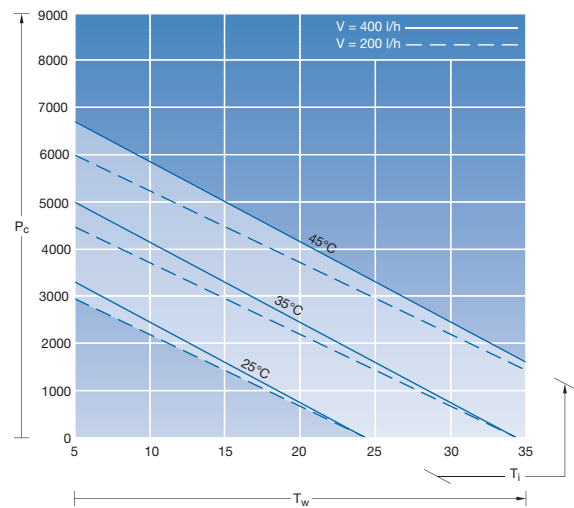
SK 3210.100, .500



T_w = vanntilførsels temperatur (°C)
 P_c = total kjøleeffekt (W)
 T_i = innvendig temperatur i kapsling (°C)

60 Hz

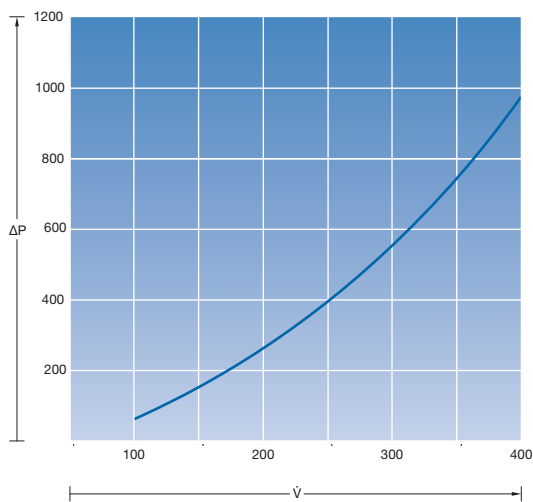
SK 3210.100, .500



T_w = vanntilførsels temperatur (°C)
 P_c = total kjøleeffekt (W)
 T_i = innvendig temperatur i kapsling (°C)

Vannmotstands diagram

SK 3210.100, .500



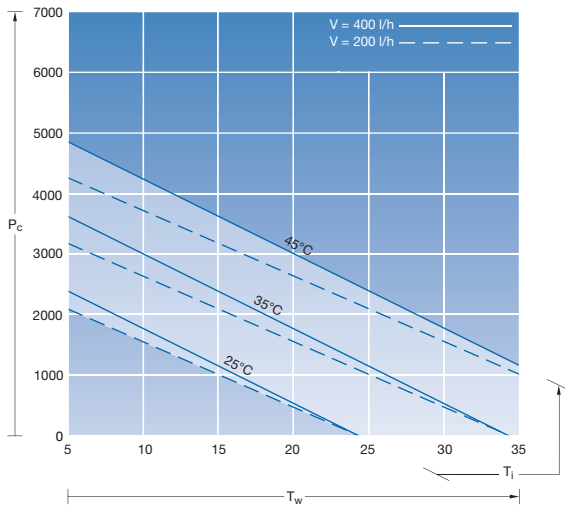
\dot{V} = vannmengde (l/h)
 ΔP = vannmotstand (mbar)

Luft/vann varmeveksler for takmontering

Effektklasse 3000 W

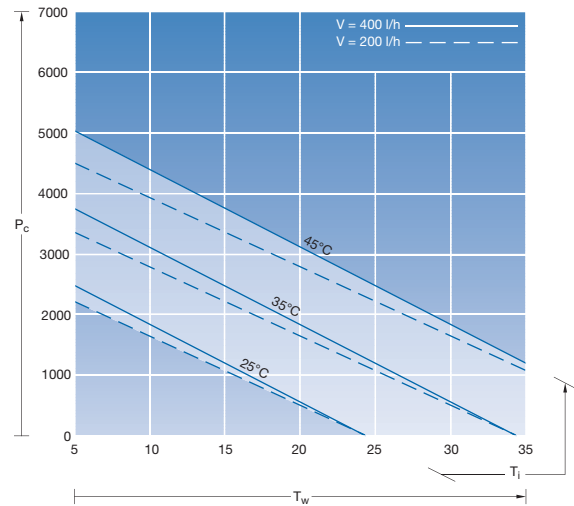
Vannførende deler: Rustfritt stål (1.4571)

50 Hz
SK 3210.504



T_w = vanntilførsels temperatur (°C)
 P_c = total kjøleeffekt (W)
 T_i = innvendig temperatur i kapsling (°C)

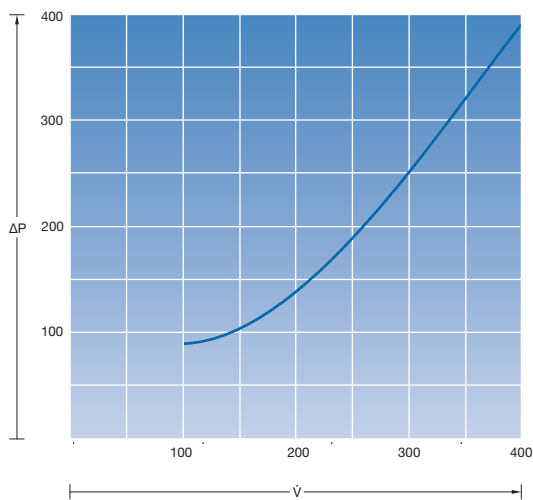
60 Hz
SK 3210.504



T_w = vanntilførsels temperatur (°C)
 P_c = total kjøleeffekt (W)
 T_i = innvendig temperatur i kapsling (°C)

Vannmotstands diagram

SK 3210.504



\dot{V} = vannmengde (l/h)
 ΔP = vannmotstand (mbar)

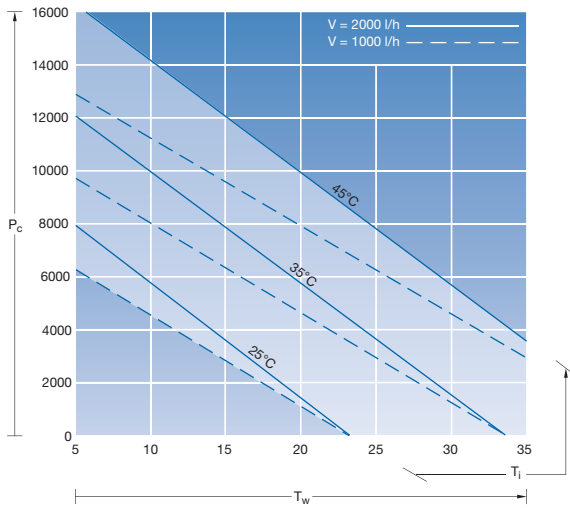
Liquide Cooling Package

Effektklasse 10 kW, LCP rack industri

Vannførende deler: Kobber/messing (Cu/CuZn)

50/60 Hz

SK 3378.100, .180



T_w = vanntilførsels temperatur (°C)

P_c = total kjøleeffekt (W)

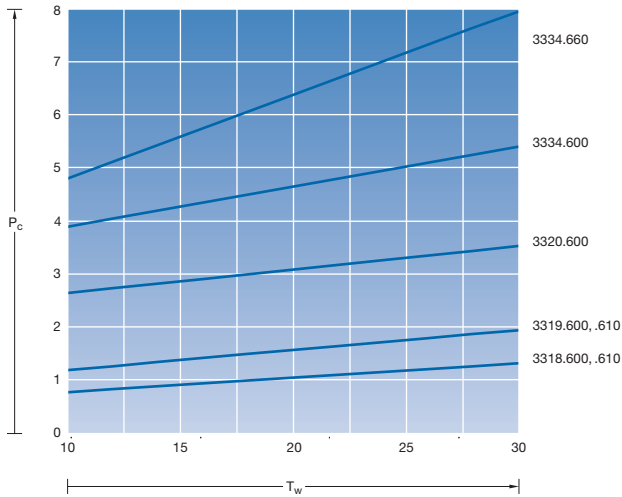
T_i = innvendig temperatur i kapsling (°C)

Chiller TopTherm

Effektklasse 1 – 6 kW

50 Hz ved $T_u = 32^\circ\text{C}$ (omgivelsestemperatur)

SK 3318.600, .610, 3319.600, .610, 3320.600, 3334.600, .660

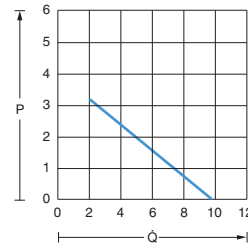


T_w = vanntilførsels temperatur ($^\circ\text{C}$)
 P_c = total kjøleeffekt (kW)

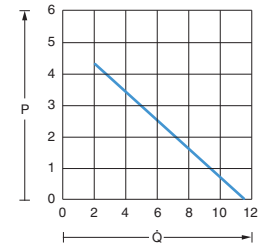
Pumpekarakteristikker

SK 3318.600/SK 3318.610/SK 3319.600/SK 3319.610

50 Hz

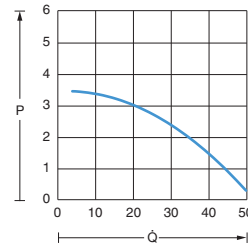


60 Hz

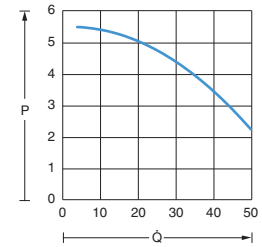


SK 3320.600/SK 3334.600/SK 3334.660

50 Hz



60 Hz

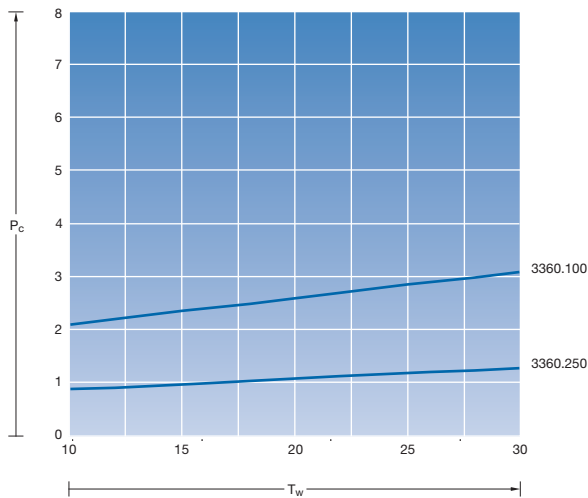


P = arbeidstrykk [bar]
 Q = transportstrøm Q [l/min]

Effektklasse 1 – 2,5 kW, veggmontering

50 Hz ved $T_u = 32^\circ\text{C}$ (omgivelsestemperatur)

SK 3360.100, .250

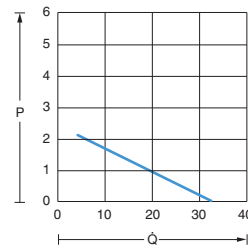


T_w = vanntilførsels temperatur ($^\circ\text{C}$)
 P_c = total kjøleeffekt (kW)

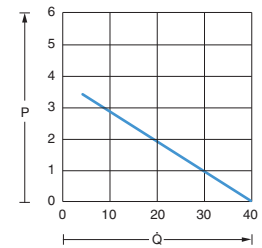
Pumpekarakteristikker

SK 3360.100/SK 3360.250

50 Hz



60 Hz



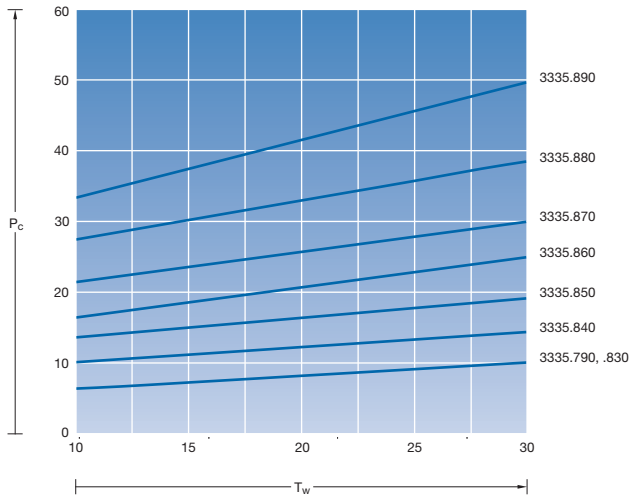
P = arbeidstrykk [bar]
 Q = transportstrøm Q [l/min]

Chiller TopTherm

Effektklasse 8 – 40 kW

50 Hz ved $T_u = 32^\circ\text{C}$ (omgivelsestemperatur)

SK 3335.790, .830, .840, .850, .860, .870, .880, .890

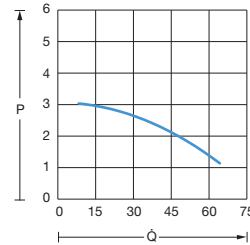


T_w = vanntilførsels temperatur ($^\circ\text{C}$)
 P_c = total kjøleeffekt (kW)

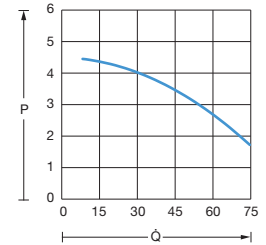
Pumpekarakteristikk

SK 3335.850

50 Hz

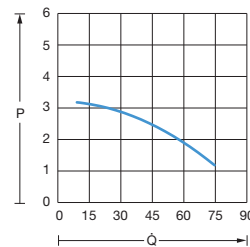


60 Hz

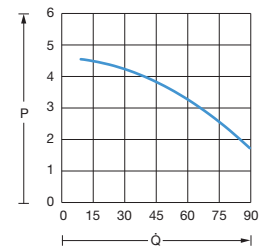


SK 3335.860

50 Hz

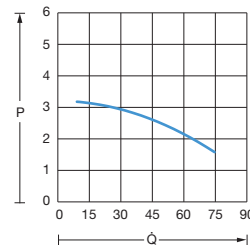


60 Hz

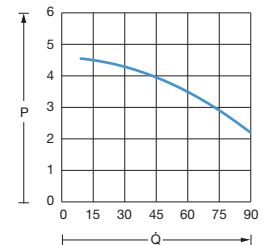


SK 3335.870

50 Hz

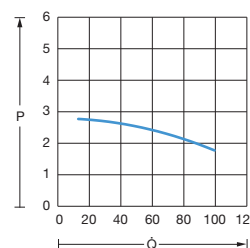


60 Hz

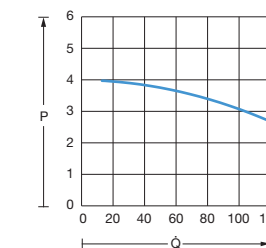


SK 3335.880

50 Hz

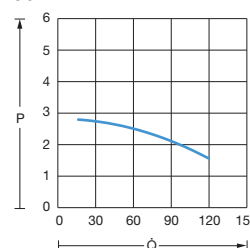


60 Hz

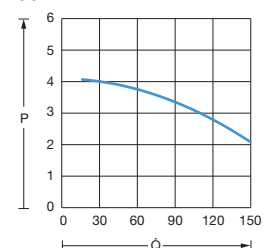


SK 3335.890

50 Hz



60 Hz

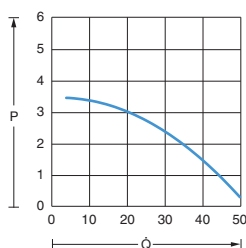


P = arbeidstrykk [bar]
 \dot{Q} = transportstrøm Q [l/min]

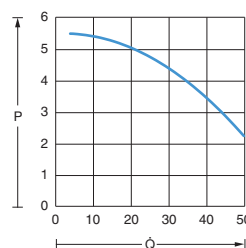
Pumpekarakteristikk

SK 3335.790/SK 3335.830

50 Hz

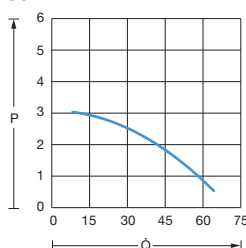


60 Hz

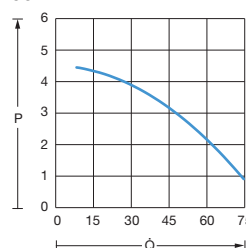


SK 3335.840

50 Hz



60 Hz

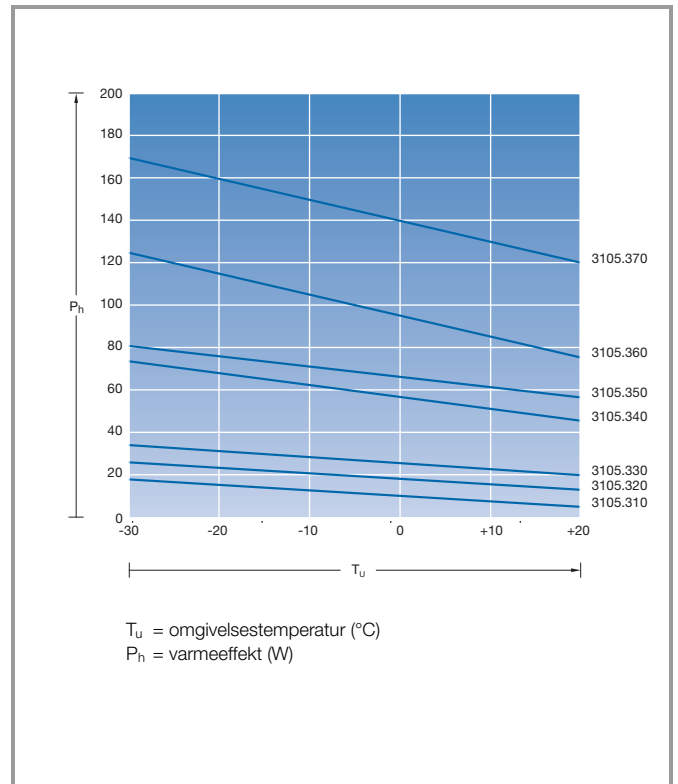
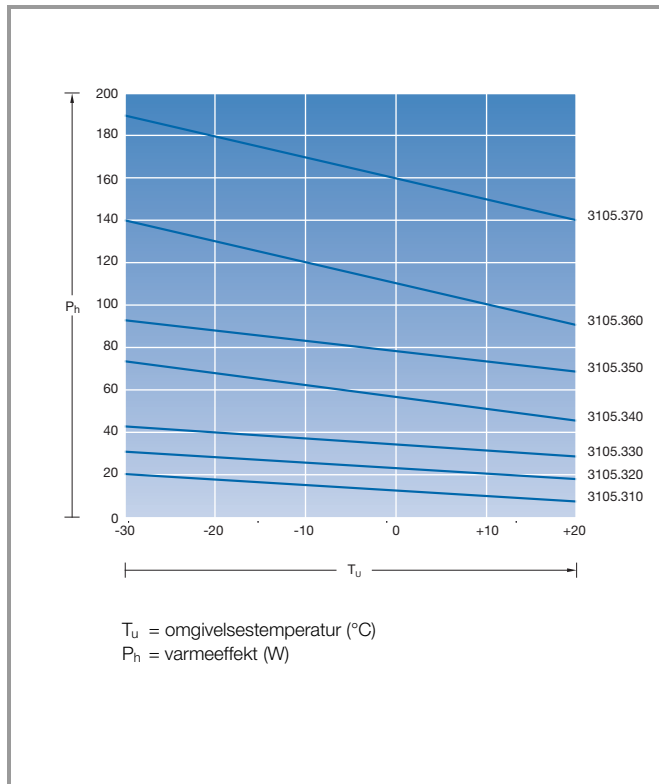


Varmeelementer for apparatskap

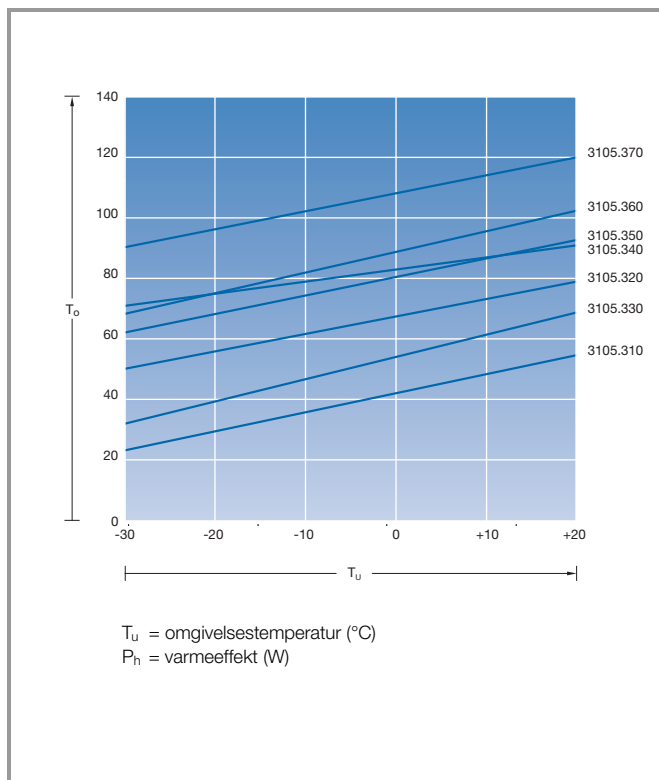
Varmeelementer for apparatskap uten vifte

Varmeeffekt 230 V

Varmeeffekt 110 V



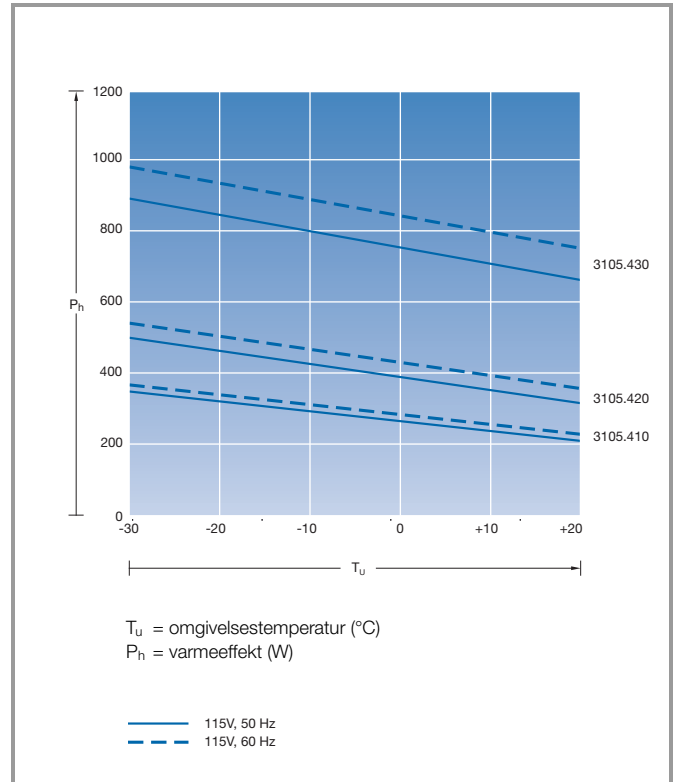
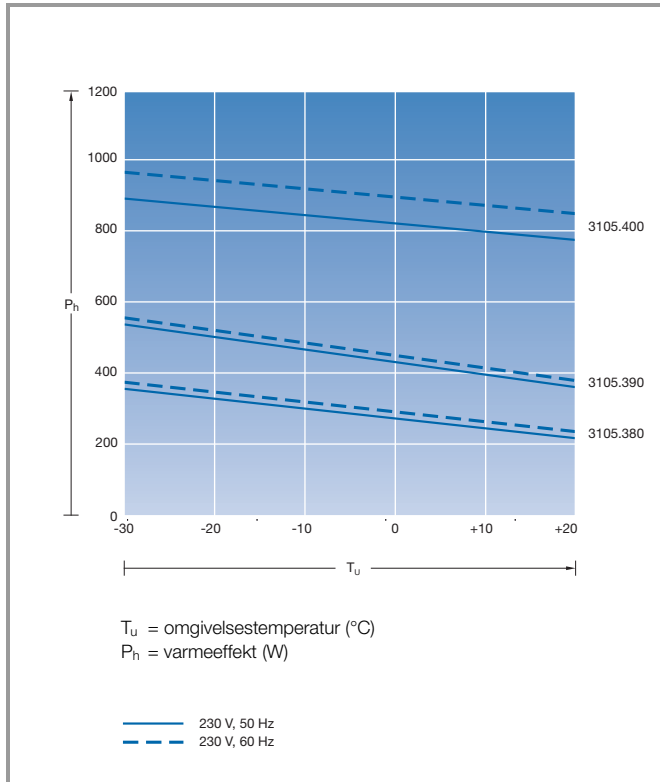
Maks. overflatetemperatur



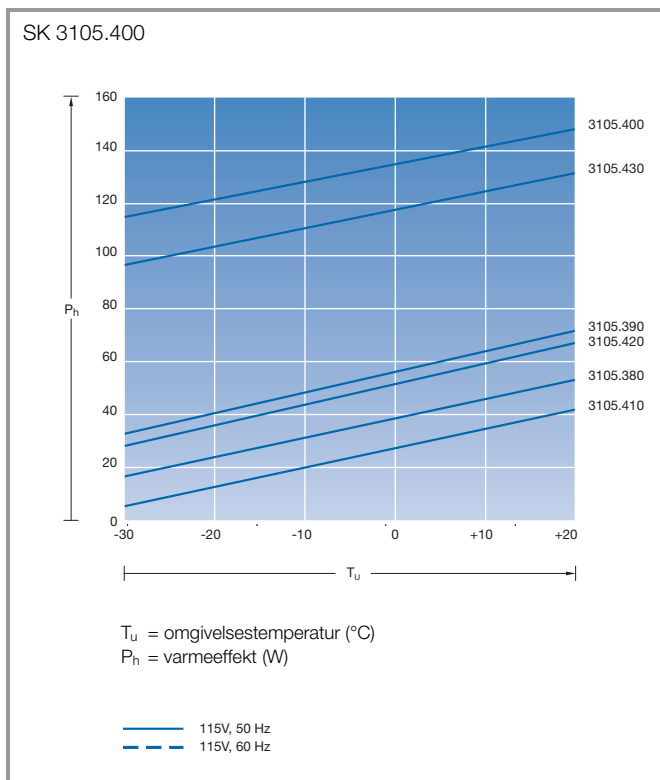
Varmeelementer for apparatskap med vifte

Varmeeffekt 230 V, 50/60 Hz

Varmeeffekt 115 V, 50/60 Hz



Maks. overflatetemperatur



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