# KP

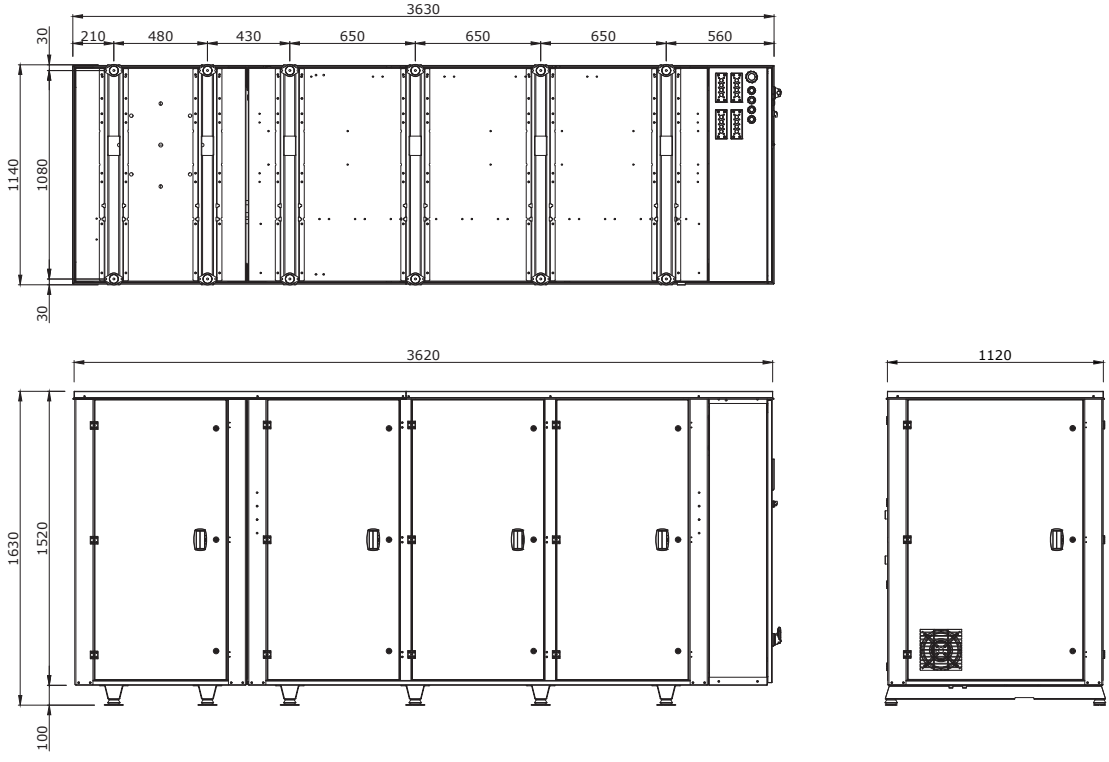
## 550N 100B R744

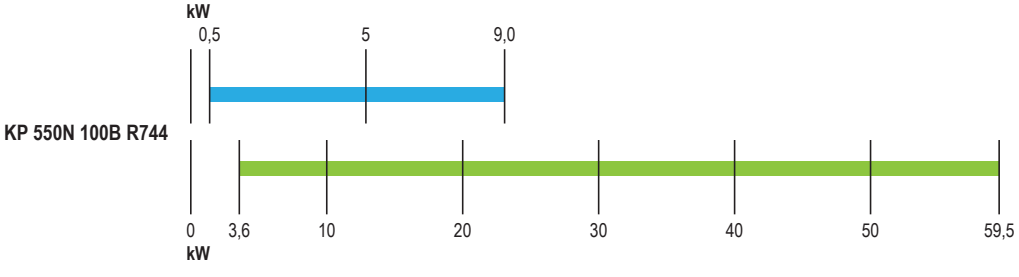
| Nome | Model | Modell | | KP 550N 100B R744 |
|---|---|---|---|---|
| Campo di applicazione TN | NT Application field | Anwendungsbereich TN | °C | -5 ÷ -15 |
| Campo di applicazione BT | LT Application field | Anwendungsbereich BT | °C | -25 ÷ -35 |
| Alimentazione | Power supply | Netzanschluß | | 400/3/50 |
| Corrente massima assorbita | Max. absorbed current | Max. absorbierter Strom | A | 94,4 |
| Potenza massima assorbita | Max. absorbed power | Max. aufgenommene Leistung | kW | 59,1 |
| Tipo refrigerante | Refrigerant type | Kältemittel | | R744 |
| Tipologia circuito | Circuit type | Schaltungsart | | PBC |
| Compressore parallelo | Parallel compressor | Parallelkompressor | | SI |
| Valvola gas caldo | Back pressure valve | Gegendruckventil | | VE |
| Valvola flash gas | Flash gas valve | Flashgasventil | | VE |
| Classe PED | PED Category | PED-Klasse | | IV |
| PS HP/MP/LP | PS HP/MP/LP | PS HP/MP/LP | bar | 130 / 100 / 52 |
| Potenza frigorifera TN* | NT Nominal refrigeration capacity* | Nennkühlleistung TN | kW | 59,5 |
| COP TN* | COP NT* | COP TN* | kW/kW | 2,3 |
| Potenza frigorifera BT* | LT Nominal refrigeration capacity* | Nennkühlleistung BT | kW | 9,0 |
| COP BT* | COP LT* | COP BT* | kW/kW | 1,6 |
| Tipo compressori | Compressor type | Kompressortyp | | S+I |
| Numero inverter | Inverter number | Anzahl der Wechselrichter | | 4 |
| Controllo di capacità | Capacity control | Kapazitätskontrolle | | Inverter |
| Minimo fattore di carico | Minimum power factor | Mindestlastfaktor | % | 6 |
| Potenza al gas cooler* | Gas cooler capacity* | Gaskühlerkapazität* | kW | 100,5 |
| Max potenza recupero calore** | Max heat recovery power** | Max Wärmerückgewinnungsleistung** | kW | 22 |
| Max portata recupero calore** | Max heat recovery capacity** | Max Wärmerückgewinnungsleistung** | l/h | 955 |
| Perdita di carico acqua | Water pressure drop | Wasserdruckverlust | kPa | 50 |
| Diametro linea mandata | Discharge line diameter | Durchmesser der Vorlaufleitung | " | Ø7/8" |
| Diametro linea liquido | Liquid line diameter | Durchmesser der Flüssigkeitsleitung | " | Ø3/4" |
| Diametro linea aspirazione TN | NT Suction line diameter | Durchmesser der Saugleitung TN | " | Ø7/8" |
| Diametro linea aspirazione BT | LT Suction line diameter | Durchmesser der Saugleitung BT | " | Ø5/8" |
| Volume ricevitore | Receiver volume | Empfängerlautstärke | l | 160 |
| Imballo X | Packing X | Verpackung X | mm | - |
| Imballo Y | Packing Y | Verpackung Y | mm | - |
| Imballo Z | Packing Z | Verpackung Z | mm | - |
| Peso lordo | Gross weight | Bruttogewicht | kg | - |
| Peso netto | Net Weight | Nettogewicht | kg | 1600 |
| Volume imballo | Volume | Volumen | m3 | - |
| Codice | Code | Kodex | | 112001000 |

N= * :Te= -10°C ; Tgc,out= +35°C
B= * : Te= -30°C ; Tgc,out= +35°C
** Tw in/out = +30°C/+50°C

**C** : Capillare / Capillary / Capillaire / Kapillar / Capillair
**COP** : Coefficiente di prestazione / Coefficient of performance
**CMP** : Compressore / Compressor / Compresseur / Kompressorleistung / Compressor
**CND** : Condensatore / Condenser / Condenseur / Verflüssiger / Condensor
**E** : Ermetico / Hermetic / Hermetique / Vollhermetisch / Hermetische
**HG** : Gas caldo / Hot gas / Gaz chaud / Heissgas / Heet gas
**Qf** : Potenza frigorifera / Cooling capacity / Puissances frigorifiques / Kälteleistung / Koelcapaciteit
**Qe** : Potenza elettrica / Electrical power/ Puissance électrique / Puissance électrique / Potencia eléctrica
**PS** : Pressione di progetto / Design pressure / Pression nominale / Auslegungsdruck/ Presión de diseño
**S** : Semiermetico / Semihermetic / Semi-hermetique / Halbhermetisch / Semi hermetisch
**S+I** : Semiermetico con inverter / Semi-hermetic with inverter / Semi-hermétique avec variateur / Halbhermetisch mit Inverter / Semiermético con inversor

**Pgc** : Pressione del gas cooler / Gas cooler pressure / Pression du refroidisseur de gaz / Druck im Gaskühler / Presión del enfriador de gas
Índice de rendimiento energético estacional
**Ta** : Temperatura ambiente / Ambient temperature / Température ambiente Umgebungstemperatur / Omgevingstemperatuur
**Tc** : Temperatura cella / Cold room temperature / Température chambre froid Kühlraumtemperatur / Koude kamertemperatuur
**Te** : Temperatura evaporazione / evaporation temperature / température d'évaporation Verdampfungstemperatur / verdampingstemperatuur
**Tcond** : Temperatura condensazione / condensation temperature / température de condensation Kondensationstemperatur / Temperatura de condensación




RESA - CAPACITY - PUISSANCE - LEISTUNG - PRESTATIE / VOLUME - VOLUME - VOLUME - VOLUME - VOLUME
Rese ottenute considerando un approccio al gas cooler di 3K / Yields obtained assuming a gas cooler temperature of 3K / Rendements obtenus en considérant une température d'entrée du refroidisseur de gaz de 3 K / Ergebnisse unter der Annahme einer Anfahrtemperatur des Gaskühlers von 3 K / Rendimientos obtenidos considerando un enfoque del enfriador de gas de 3 K

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KP 550N 100B R744 | Te | °C | -15 | | | | -10 | | | | -5 | | | |
| | Ta | °C | 27 | 32 | 38 | 43 | 27 | 32 | 38 | 43 | 27 | 32 | 38 | 43 |
| | Pgc | bar | 81,0 | 87,6 | 104,2 | 118,1 | 81,0 | 87,6 | 104,2 | 118,1 | 81,0 | 87,6 | 104,2 | 118,1 |
| | Qf | kW | 33,86 | 50,11 | 50,11 | 50,11 | 40,63 | 59,46 | 59,46 | 59,46 | 70,05 | 70,05 | 70,05 | 70,05 |
| | Qe | kW | 16,73 | 24,66 | 30,58 | 35,78 | 17,46 | 26,44 | 33,37 | 39,47 | 23,12 | 28,04 | 36,09 | 43,20 |
| | COP | kW/kW | 2,02 | 2,03 | 1,64 | 1,40 | 2,33 | 2,25 | 1,78 | 1,51 | 3,03 | 2,50 | 1,94 | 1,62 |
| | | | | | | | | | | | | | | |
| | Te | °C | -35 | | | | -30 | | | | -25 | | | |
| | Ta | °C | 27 | 32 | 38 | 43 | 27 | 32 | 38 | 43 | 27 | 32 | 38 | 43 |
| | Pgc | bar | 81,0 | 87,6 | 104,2 | 118,1 | 81,0 | 87,6 | 104,2 | 118,1 | 81,0 | 87,6 | 104,2 | 118,1 |
| | Qf | kW | 7,53 | 7,53 | 7,53 | 7,53 | 8,96 | 8,96 | 8,96 | 8,96 | 10,60 | 10,60 | 10,60 | 10,60 |
| | Qe | kW | 5,03 | 5,14 | 6,03 | 6,80 | 5,47 | 5,60 | 6,65 | 7,57 | 5,90 | 6,06 | 7,29 | 8,38 |
| | COP | kW/kW | 1,50 | 1,46 | 1,25 | 1,11 | 1,64 | 1,60 | 1,35 | 1,18 | 1,80 | 1,75 | 1,45 | 1,27 |

TN: Te= -10°C Tgc,OUT=35°C - BT: Te= -30°C Tgc,OUT =35°C



Disegno tecnico indicativo. Le misure reali potrebbero subire delle variazioni. Indicative technical drawing. Actual measurements may vary.