



New Website Coming Soon

Coefficients for Compressor Model H25G144DBE

Measurement System: Metric	Revision: 2
Refrigerant: R22	Series Family: G

Coefficient	Capacity	Power	Current	Mass Flow	Efficiency
C1	110 135.626700000	6 381.145935000	19.237150000	1 336.003946000	0.0
C2	2 602.582008000	3.546156570	0.088476600	28.106426570	0.0
C3	- 615.048646500	- 10.397494740	- 0.180164000	- 10.785173820	0.0
C4	19.505701320	- 1.472683105	- 0.002906790	0.161269792	0.0
C5	- 10.301134770	0.976675292	0.000138998	- 0.101708246	0.0
C6	- 0.219414212	0.103086185	0.001656920	0.068297060	0.0
C7	- 0.001063874	- 0.000055400	- 0.000000433	- 0.000147500	0.0
C8	- 0.028550247	0.009683504	0.000022836	0.000362501	0.0
C9	0.000041800	- 0.000064700	0.000004945	0.000255001	0.0
C10	0.000647747	- 0.000276396	- 0.000004961	- 0.000294168	0.0

Use these equations:

$$\begin{aligned} \text{CAPACITY (Watts)} &= 0.29283333*(C1+ C2*(TE*1.8+32) + C3*(TC*1.8+32) + C4*(TE*1.8+32)^2+C5* \\ &(TE*1.8+32)*(TC*1.8+32) \\ &+ C6*(TC*1.8+32)^2 + C7*(TE*1.8+32)^3 + C8*(TE*1.8+32)^2*(TC*1.8+32) + C9*(TE*1.8+32)* \\ &(TC*1.8+32)^2 + C10*(TC*1.8+32)^3) \end{aligned}$$

$$\begin{aligned} \text{POWER (Watts)} &= C1 + C2*(TE*1.8+32) + C3*(TC*1.8+32) + C4*(TE*1.8+32)^2 + C5*(TE*1.8+32)* \\ &(TC*1.8+32) \\ &+ C6*(TC*1.8+32)^2 + C7*(TE*1.8+32)^3 + C8*(TE*1.8+32)^2*(TC*1.8+32) + C9*(TE*1.8+32)* \\ &(TC*1.8+32)^2 + C10*(TC*1.8+32)^3 \end{aligned}$$

$$\begin{aligned} \text{CURRENT (Amperes)} &= C1 + C2*(TE*1.8+32) + C3*(TC*1.8+32) + C4*(TE*1.8+32)^2 + C5*(TE*1.8+32)* \\ &(TC*1.8+32) \\ &+ C6*(TC*1.8+32)^2 + C7*(TE*1.8+32)^3 + C8*(TE*1.8+32)^2*(TC*1.8+32) + C9*(TE*1.8+32)* \\ &(TC*1.8+32)^2 + C10*(TC*1.8+32)^3 \end{aligned}$$

$$\begin{aligned} \text{MASS FLOW (kg/hr)} &= 0.4536*(C1 + C2*(TE*1.8+32) + C3*(TC*1.8+32) + C4*(TE*1.8+32)^2 + \\ &C5*(TE*1.8+32)*(TC*1.8+32) \\ &+ C6*(TC*1.8+32)^2 + C7*(TE*1.8+32)^3 + C8*(TE*1.8+32)^2*(TC*1.8+32) + C9*(TE*1.8+32)* \\ &(TC*1.8+32)^2 + C10*(TC*1.8+32)^3) \end{aligned}$$

where TE (evaporating temperature) and TC (condensing temperature) are in units of °C.