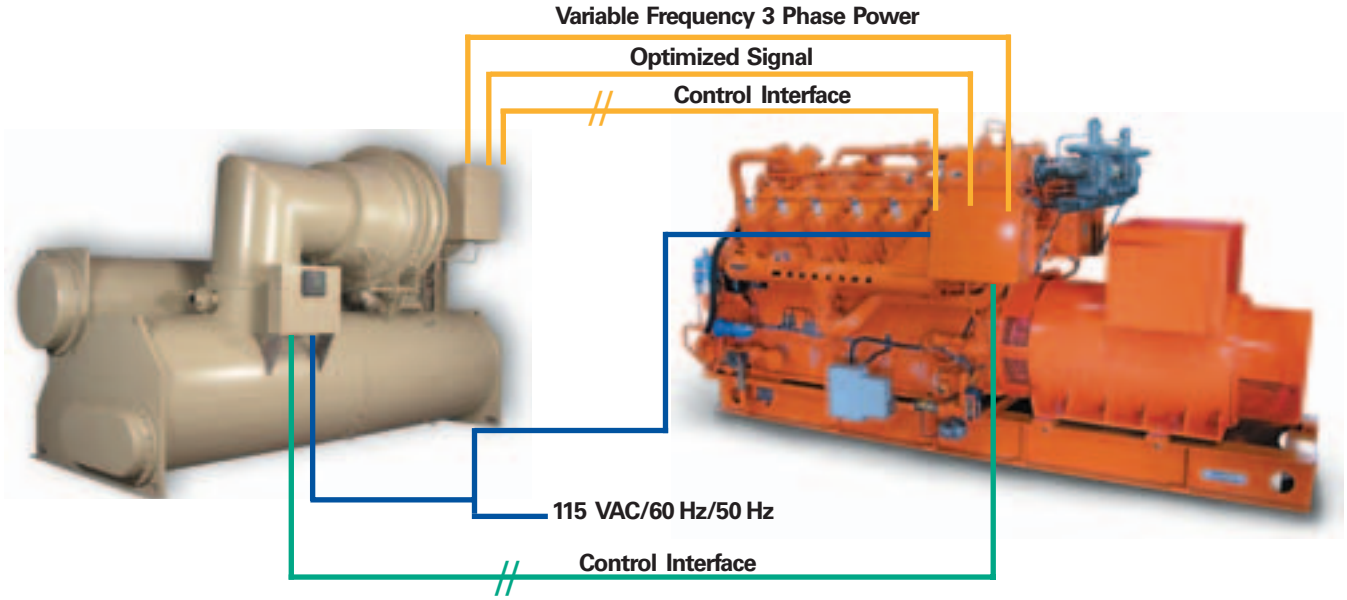
Trane Gas Powered CenTraVac™ (GPC) Chiller Package 165-3950 Tons



General

In today's air conditioning market there are many system alternatives. These include electric chillers, gas or steam absorption chillers, engine driven chillers or a combination of two or more of the above.

Economics should play a dominant role in determining which system is selected. In some cases an engine driven chiller or an engine driven generator set combined with an electric chiller may be the best choice.

Engine driven alternatives, whether an engine driven generator set or a straight engine driven chiller, have the highest coefficients of performance of any natural gas cooling system and demonstrate lower total operating cost in many parts of the country.

The proven design of the CenTraVac chiller and the Waukesha Enginator® make this package exceptionally attractive when the economics favor an engine driven system. The design of the Gas Powered CenTraVac® was developed with the assistance of the Gas Technology Institute.

CenTraVac Features and Benefits

- Direct-drive for reliability and simplicity
- Multi-stage design for efficiency
- Design for use with environmentally compatible HCFC-123
- Completely factory-assembled for lower jobsite costs
- "Near Zero" refrigerant emission design
- Proven shell and tube design for a variety of high performance heat transfer surfaces
- Range of component combinations to allow selection of chiller that best meets system requirements
- Features Trane's exclusive Adaptive Control™ to keep chiller on line under unfavorable operating conditions

Waukesha Enginator Features and Benefits

- State-of-the-art manufacturing assures quality components for long service life minimizing operation costs.
- History of customer satisfaction in providing site specific hardware for ease of installation and operation.
- Lean burn technology provides low emissions and fuel economy for low operating costs. Enginators can also be equipped with catalytic converters when required.
- Custom Enginator control for engine protection and communication with the Tracer chiller controller.
- Options for both jacket water and exhaust heat recovery to meet a variety of customer requirements including absorption chillers.
- Fuel systems capable of operation on low fuel supply pressures.

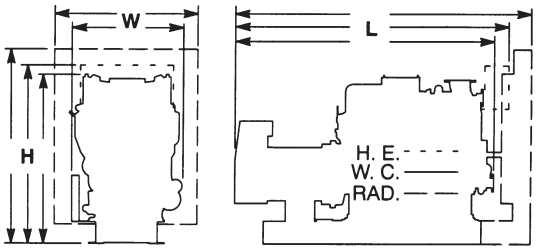
Trane GPC Features and Benefits

- The ability to place the engine generator set in a remote location allows for more effective use of plant floor space and flexibility, in sound-sensitive work areas.
- Flexibility of base loading and peak shaving cost-effective installations — No onsite piping connections between engine and centrifugal chiller, thus minimizing potential refrigerant leaks, and no industrial air compressor is required.

Dimensional Information

The following dimensional information is representative of the line of Waukesha Enginator engine-generators and Trane CenTraVac chillers. Some of the available chiller combinations have been omitted due to space constraints.

Waukesha Enginator™ (Table 1)



Trane CenTraVac™ (Table 2)

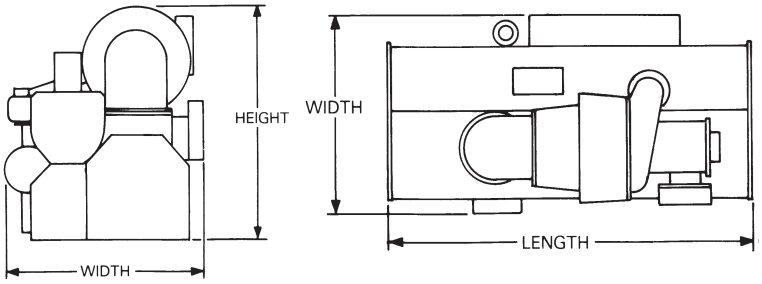


Table 1. Waukesha Enginator™

Model	kWe*	Enginator Cooling Method	L - in. (mm)	H - in. (mm)	W - in. (mm)	Avg. Wt. - lb. (kg)
VGF18GL/GLD	280	H.E.	122 (3100)	77 (1960)	54 (1370)	8400 (3810)
	280	W.C.	113 (2870)	77 (1960)	54 (1370)	8100 (3673)
	265	RAD.	139 (3530)	86 (2190)	62 (1580)	9100 (4127)
VGF24GL/GLD	375	H.E.	142 (3610)	79 (2000)	54 (1370)	10800 (4898)
	375	W.C.	132 (3350)	79 (2000)	54 (1370)	10300 (4670)
	350	RAD.	158 (3860)	94 (2390)	72 (1830)	12000 (5442)
VGF36GL/GLD	560	H.E.	157 (3990)	96 (2440)	57 (1450)	17000 (7720)
	560	W.C.	137 (3480)	89 (2260)	57 (1450)	16000 (7260)
	530	RAD.	188 (4780)	124 (3150)	105 (4780)	20500 (9300)
VGF48GL/GLD	750	H.E.	184 (4680)	90 (2290)	62 (1580)	22500 (10200)
	750	W.C.	162 (4120)	90 (2290)	62 (1580)	21000 (9530)
	730	RAD.	212 (5390)	136 (3450)	123 (3120)	27000 (12250)
VHP5900GSI	900	H.E.	215 (5460)	108 (2740)	80 (2030)	35,000 (15,875)
	865	W.C.	198 (5030)	108 (2740)	80 (2030)	32,750 (14,850)
	835	RAD.	236 (5990)	138 (3510)	114 (2900)	38,250 (17,350)
VHP7100GL	1100	H.E.	216 (5490)	103 (2620)	81 (2060)	36000 (16300)
	1050	W.C.	197 (5000)	103 (2620)	81 (2060)	34000 (15400)
	1025	RAD.	238 (6050)	128 (3505)	114 (2900)	39750 (18000)
VHP9500GL	1475	H.E.	290 (7370)	130 (3300)	92 (2340)	48250 (21040)
	1400	W.C.	265 (6730)	130 (3300)	87 (2210)	46750 (21200)
	1350	RAD.		consult factory		

H.E. is heat exchanger cooling - W.C. is water connection cooling - RAD. is radiator cooling - *Continuous duty rating

Table 2. Trane CenTraVac™

Model	Comp.	Shell Size	Shell Arrangement	L - in. (mm)	H - in. (mm)	W - in (mm) No Starter	W - in (mm) w/Starter
CVHE	230-320	320	SS	11' 3" (3429)	7' 9 3/4" (2380)	5' 9 1/4" (1759)	6' 7 1/2" (2019)
			SL & LL	15' 0 1/4" (4578)	7' 9 3/4" (2380)	5" 9 1/4" (1759)	6' 7 1/2" (2019)
CVHE	360-500	500	SS	11' 3" (3429)	8' 2 1/2" (2502)	6' 7 5/8" (2022)	7' 8 1/2" (2350)
			SL & LL	15' 0 1/4" (4578)	8' 2 1/2" (2502)	6' 7 5/8" (2022)	7' 8 1/2" (2350)
CVHF	350-485	500	SS	11' 3" (3429)	8' 4" (2540)	6' 7 5/8" (2022)	7' 8 1/2" (2350)
			SL & LL	15' 0 1/4" (4578)	8' 4" (2540)	6' 7 5/8" (2022)	7' 8 3/4" (2350)
CVHF	555-640	800	SS	11' 3" (3429)	9' 8" (2946)	7' 11 1/4" (2419)	8' 7 5/8" (2632)
			SL & LL	15' 0 1/4" (4578)	9' 8" (2946)	7' 11 1/4" (2419)	8' 7 5/8" (2632)
CVHF	650-910	1420	ML & LL	15' 0 1/4" (4578)	10' 1 1/8" (3077)	9' 11 3/4" (3042)	10' 3 7/8" (3146)
CVHF	1060-1280	2100	LL	15' 0 1/4" (4578)	11' 0 7/8" (3375)	10' 9 3/4" (3296)	10' 10" (3302)
CVHF	1470-1720	2500	EL	16' 10 3/4" (5150)	11' 9 1/8" (3585)	11' 11 1/2" (3645)	11' 11 1/2" (3645)
CDHF	2100-2500	2500	DD	21' 6" (6553)	11'4 7/8" (3477)	11' 10 1/2" (3620)	11' 10 1/2" (3620)
CDHF	3000	2500	MM	26' 0" (7925)	11' 9 3/8" (3591)	11' 5 1/4" (3487)	consult factory
CDHF	3500	2500	XX	30' 0" (9144)	11' 9 3/8" (3591)	11' 5 1/4" (3487)	consult factory

Where: SS = Short evaporator/short condenser - SL = Short evaporator/long condenser - LL = Long evaporator/long condenser - EL = Extended evaporator/long condenser - Height includes unit mounted starter

All dimensions and weights are approximate, for estimating purposes only.

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