Bulletin: MACH-2014-TD01

Date: 04/02/2014

Supercedes: MACH-2013-001

Technical Data

HARSCO INDUSTRIAL Patterson-Kelley

Size	Units	CM-300	CM-399	CM-500	C-300	C-450	C-750	C-900	C-1050	C-1500	C-1500H	C-2000	C-2000H	C-2500	C-3000	C-4000
Input	**Mbtu/hr**	300	399	500	300	450	750	900	1,050	1,500	1,500	2,000	2,000	2,500	3,000	4,000
Output	**Mbtu/hr**	281	371	460	276	414	713	846	987	1,440	1,440	1,920	1,920	2,375	2,850	3,800
Output	**BHP**	8.4	11.1	13.7	8.2	12.4	21.3	25.3	29.5	43.0	43.0	57.3	57.3	70.9	85.1	113.5
Fuel Rate	**CFH**	291	387	485	291	437	728	874	1,019	1,456	1,456	1,942	1,942	2,427	2,913	3,883
Air Requirement	**SCFM**	70	93	117	70	105	175	210	245	350	350	467	467	584	629	839
Theoretical Air	**SCFM**	47	62	78	47	70	117	140	163	233	233	311	311	388	466	621
Excess Air	**%**	50.2%	50.0%	50.6%	50.2%	50.2%	50.2%	50.2%	50.2%	50.2%	50.2%	50.3%	50.3%	50.4%	35.0%	35.0%
Flue Gas Flow	**ACFM**	92	122	153	92	138	229	275	321	458	458	611	611	764	825	1100
Flue Gas Flow	**fps**	17.5	23.3	29.2	13.4	16.8	19.5	13.1	15.3	14.0	14.0	18.7	18.7	23.3	25.2	33.6
Emmissions:																
Dry Flue Gas Flow	**lb/hr**	312	416	521	312	469	781	937	1094	1562	1562	2083	2083	2604	3125	3729
Wet Flue Gas Flow	**lb/hr**	345	459	575	345	517	862	1034	1207	1724	1724	2298	2298	2873	3116	4155
CO_2	**lb/hr**	35	47	59	35	53	89	106	124	177	177	236	236	295	355	473
CO	**ppm**	44	67	67	67	67	64	64	64	19	20	19	20	21	23	33
NO_x	**ppm**	8.1	13.6	13.6	7	7	9	9	9	14	7.9	14	7.9	9.2	7.2	7.2