

Interoffice Letter

To: SERVICE MANAGERS
DISTRICT MANAGERS
SERVICE ENGINEERS
TECHNICAL REPS

Date: JULY 14, 1986
From: MIKE DE CHIARO
Office: CBS CRANFORD
Subject: COMPRESSOR CROSSREFERENCE
F.E.R. 86-7

Purpose:

To inform the field about the crossreference guide for the 3 digit code to the old style 2 digit code.

Machines Affected:

All older 19DH compressors as well as all new 19DK, 19DM, compressors used on 19DK, 19DM, and 19DR machines.

Information:

You should use the attached crossreference guides for two different reasons:

The first sheet, labeled 19DH compressors, should be used to compare or convert existing 19DH compressors from the two digit code to the new 3 digit code. This would be useful when comparing wheel sizes and nominal tonnages to the current machines. You will note that there are 3 frame sizes with the nominal capacities ranging between 110 and 400 tons. The shroud sizes, 3 thru 6, vary according to tonnage while the impeller sizes, 1 thru 7, increase according to compressor lift.

The second sheet labeled 19DM compressors is for all current 19DK and 19DM machines and should be consulted when you are setting the dip switches on the 32MP controller. You should note that the dip switches only have to be set for 19DM compressors, the 19DK's do not require you to configure the machine for any of the different compressor sizes. The 19DM sheet shows that the cooling capacities range from 200 to 500 tons while using the 2 and 3 size frames. The shroud and impeller sizes vary exactly the same as the 19DH. You can also see that when your above a 5 size wheel on a 19DM compressor, you use a 20 vane diffuser wall and with a 4 size wheel and lower, you use a 19 vane wall.

Regards,



Mike DeChiaro
MD:bg

Attachments

2/12 JAC

DH Comp.

OLD
NEW

IMPELLER	7	17	24	31	38	47	54	61	68	77	84	91	98
		118	128	148	168	178	209	228	258	288	318	358	409
	6	16	23	30	37	46	53	60	67	76	83	90	97
		117	127	147	167	177	207	227	257	287	317	357	407
	5	15	22	29	36	45	52	59	66	75	82	89	96
		116	126	146	166	176	206	226	256	286	316	356	406
	4	14	21	28	35	44	51	58	65	74	81	88	95
	115	125	145	165	175	205	225	255	285	315	355	405	
3	13	20	27	34	43	50	57	64	73	80	87	94	
	114	124	144	164	174	204	224	254	284	314	354	404	
2	12	19	26	33	42	49	56	63	72	79	86	93	
	113	123	143	163	173	203	223	253	283	313	353	403	
1	11	18	25	32	41	48	55	62	71	78	85	92	
	112	122	142	162	172	202	222	252	282	312	352	402	
SIRROUND		3	4	5	6	3	4	5	6	3	4	5	6
FRAMIC				1				2				3	
NOMINAL TONS		110	125	145	160	175	200	220	250	280	310	350	400

7/2 6

DM COMP

OLD
NEW

RELEASED

Impeller

7	47	54	61	68	87	77	84	91	98	67
	207	227	257	287	307	317	357	407	457	507
6	46	53	60	67	86	76	83	90	97	66
	206	226	256	286	306	316	356	406	456	506
5	45	52	59	66	85	75	82	89	96	65
	205	225	255	285	305	315	355	405	455	505
4	44	51	58	65	84	74	81	88	95	64
	204	224	254	284	304	314	354	404	454	504
3	43	50	57	64	83	73	80	87	94	63
	203	223	253	283	303	313	353	403	453	503
2	42	49	56	63	82	72	79	86	93	62
	202	222	252	282	302	312	352	402	452	502
SHELD	3	4	5	6	7	3	4	5	6	7
FNNING			2				3			

1980S
1981S
1982S
1983S
1984S
1985S
1986S
1987S
1988S
1989S
1990S
1991S
1992S
1993S
1994S
1995S
1996S
1997S
1998S
1999S
2000S

NON/INT TONS

200 225 250 280 300 315 350 400 450 500