MSTP/IP/ETH	BACNET GATEWAY	MODBUS	CAREL	LÓN	LON			
<u>T</u>	BV instance	10002	Digital 1	Name	Туре	R/W	DESCRIPTION Control of the control o	VALUE RANG
2	2	10002	2			R	Enter water temperature sensor enable Enter water temperature sensor out of range	1=Enabled 1=Failed
3	3	10003	3			R	Panel temperature sensor enable	1=Enabled
4	4	10005	4	· · · · · ·		R	Panel temperature sensor out of range	1=Failed
5	5	10006	5			R	Leaving water temperature sensor enable	1=Enabled
6	6	10007	6			R	Leaving water temperature sensor out of range	1=Failed
. 7	7	10008	7	nvoLwtHighAlm	95	R	Leaving water temperature 'high; alarm	1≅Alam
8	8	10009	8	nvoLwtLowAlm	95	R	Leaving water temperature low alarm	1#Alami
9	9	10010	9			R	Control type P or P+I	1=P+I
10	10	10011	10			R	Ambient temperature sensor enable	1=Enabled
11	11	10012	11			R	Ambient temperature sensor out of range	1=Alarm
12	12	10013	12			R	c1 low pressure sensor enable	1=Enabled
13	13	10014	13		***************************************	R	C1 low pressure sensor out of range	1=Alarm
14	14	10015	14			R	c2 low pressure sensor enable	1=Enabled
15	15	10016	15			R	C2 low pressure sensor out of range	1=Alarm
16	16	10017	16			R	c1 high pressure sensor enable	1=Enabled
17	17	10018	17			R	C1 high pressure sensor out of range	1=Alarm
18	18	10019	18			R	c2 high pressure sensor enable	1=Enabled
. 19	19	10020	19			R	C2 high pressure sensor out of range	1=Alarm
20	20	10021	20	nvoGlobalAlm	95	R	Alarm Present	1=Alarm
21	21	10022	21			R	Display buzzer enable	1=Enabled
22	22	10023	22			R	C1 high pressure switch alarm	1=Alarm
23	23	10024	23			R	C1 low pressure switch alarm	1=Atarm
24	24	10025	24			R	C2 high pressure switch alarm	1=Afarm
25	25	10026	25			R	C2 low pressure switch alarm	1=Alarm
26	26	10027	26			R/W	Temperature units	1=degrees C
27	27	10028	27			R/W	Compressor rotation enable	1=Enabled
28	28	10029	28			R	Digital input 1 position	1=open
29	. 29	10030	29			R	Digital input 10 position	1=open
30	30	10031	30			R	Digital input 11 position	1=ореп
31	31	10032	31			R	Digital input 12 position	1=open
32	32	10033	32		*******	R	Digital input 13 position	1=open
33	33	10034	Nood	2222222222		R	Digital input 14 position	1=open
34	34			compressor		R	Digital input 2 position	1=open
35	35	10036	status	for every		R	Digital input 3 position	1=open
36	36	10037	modul	е		R	Digital input 4 position	1=open
37	37	10038	37			\R	Digital input 5 position	1=open
38	38	10039	38			R	Digital input 6 position	1=open
39	39	10040	39			R	Digital input 7 position	1=open
40	40	10041	40			R	Digital input 8 position	1≕ореп
41	41	10042	41			R	Digital input 9 position	1=open
42	42	10043	42	nvoC1Out	95	R	Compressor (Estatus)	1∈ON
43	43	10044	43	nvoC2Out	95	R	Compressor 2 status	1≓ON
44	44	10045	44			R	Evap flow alarm	1=Alarm
45	45	10046	45			R	Not used	N/A
46	46	10047	46			. R	phase alarm	1=alarm
47	47	10048	47			R	Not used	N/A
48	48	10049	48			R	Not used	N/A
49	49	10050	49			R	pungs Warn	1≒alarm
50	50	10051	50	nviAlarmRst		R/W	resel alatins	1≑reset
51	51	10052	51			R/W	reset buzzer	1=reset
52	52	10053	52			R	Not used	N/A
			53			R	Not used	N/A
53	53	10054	55		. 1	_ r. ;	i tot naco	CW/A

Typical of each module

*	:					. 1	\r.	1
56	56	10057	56		<u> </u>	R `	Not used	N/A
57	57	10058	57			Ŕ	slave f allarm	1=alarm
58	58	10059	58		ļ	R	slave 2 alarm	f∈alami
59	59	10060	59		<u> </u>	R	slave 3 alarm	1=alarm
60	60	10061	60			R	slave 4 alarm	1=alami
61	61	10062	61		<u> </u>	R	slave 5 alarm.	f=alarm
62	62	10063	62			R	Slave 6 alarm	i≞alam
63	63	10064	63			R	slave / slarm	1=alami
64	64	10065	64			R	slave 8 alarm)	1=alarm
65	65	10066	65			R	slave 9 alarm	1≑alarm
66	66	10067	66		<u> </u>	R	slave to atam	1≂alarm
67	67	10068	67			R	slave 11 alam:	t≘alarm
68	68	10069	68			R	slave 12 alarm	1≓alarm
69	69	10070	69			R	stave (3 alam)	1=alarm
70	70	10071	70			R	slave 14 alarm	1⊭alarm
<u>/</u> 71	71	10072	71			R	sleve 15 alam	1=alami
72	- 72	10073	72			R	Not used	N/A
73	73	10074	73			R	Not used	N/A
74	74	10075	74			R	Not used	N/A
. 75	75	10076	75	nvoS1LwtLowAlm	95	R	Slave 1 leaving water temperature low alarm	N/A
76	76	10077	76	nvoS2LwtLowAlm	95	R	Slave 2 leaving water temperature low alarm	N/A
77	77	10078	77		1	R	Not used	N/A
78	78	10079	78	*****		R	Not used	N/A
79	79	10080	79			R	Not used	N/A
80	80	10081	80			R	Not used	N/A
81	81	10082	81			R	Not used	N/A
82	82	10083	82			R	Not used	N/A
83	83	10084	83			R	Not used	N/A
84	84	10085	84			R	Not used	N/A
85	85	10086	85			R	Not used	N/A
86	86	10087	86			R	Not used	N/A
87	87	10088	87			R	Not used	N/A
88	88	10089	88			R	Not used	N/A
89	89	10090	89			R	Not used	N/A
90	90	10091	90			R	Not used	N/A
91	91	10092	91			R	Not used	N/A
92	92	10093	92			R	Not used	N/A
93	93	10094	93			R	Not used	
94	94	10095	94	******		R	Not used	N/A
95	95	10095	95	nvoS3LwtLowAlm	95	R		N/A
96	96	10097	96	nvoS3LwtLowAim		R	Slave 3 leaving water temperature low alarm Slave 4 leaving water temperature low alarm	N/A
97	97	10098	97	11VD34EWILUWAIII	95		Not used	N/A
98	98					R		N/A
99	99	10099	98 99			R	Not used	N/A
100	100					R	Not used	N/A
101	"	10101	100			R	Not used	N/A
102	101	10102	101				Not used	N/A
	102	10103	102		0-		Not used	N/A
103 104	103	10104	103	nvoS5LwtLowAlm	95	R	Slave 5 teaving water temperature low alarm	N/A
104	104	10105	104	nvoS6LwtLowAlm	95		Slave 6 leaving water temperature low alarm	N/A
106	105	10106	105	nvoS7LwtLowAlm	95	R	Slave 7 leaving water temperature low alarm	N/A
106	106	10107	106	***************************************			Not used	N/A
	107	10108	107				Not used	N/A
108	108	10109	108				Not used	N/A
109	109	10110	109				Not used	N/A
110	110	10111	110				Not used	N/A
111	111	10112	111				Pump 1 status	1#on
112	112	10113	112			***************************************	Pump 2 status	1=on
113	113	10114	113			R	Pumps switched alarm	1=alarm

Typical of each Module

	_					\		
114	114	10115	114		1	R	Pump phase alarm	1=alarm
115	115	10116	115			R	Pump 1 overload alarm	1≃alamı
116	116	10117	116			R	Pump 2 overload alarm	1=alamı
117	117	10118	117	nvoS1C1Out	95	R	slave 1 compressor 1 status	1≃on
118	118	10119	118	nvoS1C2Out	95	R	slave 1 compressor 2 status	1=on
. 119	119	10120	119	nvoS2C1Out	95	R	slave 2 compressor 1 status	1=on
120	120	10121	120	nvoS2C2Out	95	R	Slave 2 compressor 2 status	1=on
121	121	10122	121	nvoS3C1Out	95	R	slave 3 compressor 1 status	1=on
122	122	10123	122	nvoS3C2Out	95	R	slave 3 compressor 2 status	1=on
123	123	10124	123	nvoS4C1Out	95	R	slave 4 compressor t status	1=on
124	124	10125	124	nvoS4C2Out	95	R	stave 4 compressor 2 status	1=on
125	125	10126	125	ถงoS5C1Out	95	R	slave 5 compressor 1 status	1=on
126	126	10127	126	nvoS5C2Out	95	R	šlave 5 compressor 2 status	1=on
127	127	10128	127	nvoS6C1Out	95	R	Slave 6 compressor 1 status	1=оп
128	128	10129	128	nvoS6C2Out	95	R	slave 8 compressor 2 status	1=on
129	129	10130	129	avoS7C1Out	95	R	slave 7 compressor 1 status	1=on
130	130	10131	130	nvoS7C2Out	95	R	Slave 7 compressor 2 status	1=on
131	131	10132	131	nvoS8C1Out	95	R	Slave 8 compressor 1 status	1=on
132	132	10133	132	nvoS8C2Out	95	R	Slave 6 compressor 2 status	1=on
133	133	10134	133	nvoS9C1Out	95	R	Slave 9 corepressor 1 status	1=00 1=on
134	134	10135	134	nvoS9C2Out	95	R	Bave 9 compressor 2 status	
135	135	10136	135	nvoS10C1Out	95	R	slave 10 compressor 1 status	1=on
136	136	10137	136	nvoS10C2Out	95	R	slave 10 compressor 2 status	1=on
137	137	10138	137	nvoS11C1Out	***************************************		Slave 11 compressor 1 status	1=on
138	138	10139	138		95	R	ACCOUNT OF THE PARTY OF THE PAR	1≃on
139	139	10140	139	nvoS11C2Out	95 05	R	slave (1) compressor 2 status	1=on
140	140	10140	140	nvoS12C1Out	95	R	Slave 12 compressor 1 status	1=on
141	141	10143	141	nvoS12C2Out	95	R	Slave 32 compressor 2 status	1=on
142	142	10142	142	nvoS13C1Out	95	R	Stave 13 compressor 1 status	1=on
143	143	!		nvoS13C2Out	95	R	Slave:13 compressor 2 status	1=on
144	144	10144	143	nvoS14C1Out	95	R _	Slave 14 compressor 1 status	1=on
145	145	10145	144	nvoS14C2Out	95	R	Slave 14 compressor 2 status	1=on
146	146	10146	146	nvoS15C1Out	95	R	Slave #5 compressor 1 status	1=on
AV Instance		10147		nvoS15C2Out	95	R	slave 15 compressor 2 status	1=on
AV IIIStalice	AV instance	ANALOG	·	-1 f				SERVICE SERVICE SERVICES
2	1	40002	8	al for each	0.5	R	Entening water temperatue	450 to 1850
3	2	40003	modu		L '	R _	Panel temperature	-450 to 1850
4	3	40004	3	HADEMI	-705	\\R	Leaving water temperature	450 to 1850
	4	40005	4			JR.	Amblent temperature	450 to 1850
5	. 5	40006	5	nvo/nviLwtHighSet	105	18 -73	Low pressure c1	psi
- 6	6	40007	6	nvo/nviLwtLowSet	105	·	Low pressure c2	josi Osi
7	7	40008	7	rivo/nviControlSet	105		Fligh pressure ct	psi
8	8	40009	8				Eligir pressure.c2	<u> </u>
9	9	40010	9	nvoClDemand	21	R	Cooling demand display	0 to 100
10	10	40011	10	nvoStatus	8	R	system status off, on, off of, off clock, flow, c flow, Plan	0-6
11	11	40012	11			R	pump offerential pressure 1	
12	12	40013	12			R	pump differential pressure 2	ļ
13	13	40014	13				pump flow	
14	14	40015	14			R	pump suction pressure	
15	15	40016	15			R	pump discharge pressure	4
AV instance 1001	AV instance	ANALOG	INTEGER					
	129	40130	1			R/W	Panel temperature set point	N/A
1002	130	40131	2			R	Control band	
1003	131	40132	3			R/W	Leaving temperature high alarm set point	
1004	132	40133	4			R/W	Not used	
1005	133	40134	5			R/W	Control integration time	
1006	134	40135	6			R/W	Leaving temperature low alarm set point	
1007	135	40136	7			R/W	Control set point	
1008	136	40137	8			R/W	compressor minimum off	

	1009	137	40138	9				R/W	compressor minimum on	
	1010	138	40139	10				R/W	hot gas 1 off set point	0 to 999
	1011	139	40140	11		<u> </u>		R/W	hot gas 1 on set point	N/A
	1012	140	40141	12				RW	hot gas 2 off set point	0 to 999
	1013	141	40142	13				R/W	hot gas 2 on set point	N/A
	1014	142	40143	14				R/W	Initial delay	0 to 999
	1015	143	40144	15				R/W	Not used	N/A
	1016	144	40145	16		<u> </u>		R/W	Not used	0 to 999
	1017	145	40146	17				R/W	Not used	N/A
	1018	146	40147	18				R/W	Not used	0 to 999
	1019	147	40148	19		<u> </u>		R/W	Entering water temperature sensor offset	N/A
	1020	148	40149	20				RW	Panel temperature sensor offset	0 to 999
	1021	149	40150	21				R/W	Leaving water temperature sensor offset	N/A
	1022	150	40151	22				R/W	Ambient temperature sensor offset	0 to 999
	1023	151	40152	23				R/W	Low pressure c1 sensor offset	N/A
	1024	152	40153	24				R/W	Low pressure c2 sensor offset	0 to 999
	1025	153	40154	25				RW	High pressure c1 sensor offset	N/A
	1026	154	40155	26				R/W	High pressure c2 sensor offset	0 to 999
	1027	155	40156	27		T			Not used	N/A
	1028	156	40157	28			\dashv	R	Not used	N/A
	1029	157	40158	29			\top		Not used	N/A
•	1030	158	40159	30			\dashv	R	Not used	N/A
	1031	159	40160	31			\dashv	R/W	password f	0-9999
	1032	160	40161	32				R/W	password 2	0-9999
	1033	161	40162					R/W	rotation time set point	0-32767
	1034	162	40163	I ypica	al for each	-	_	R	Lead status:	9/A
	1035	163	40164	modul	е	-	7		Not used	
	1036			26				\sim	Time between compressors	N/A
	1037	164	40165	36	6411		-	$\overline{}$	A STATE OF THE STA	0-999
	1038	165	40166	37	nvoC1Hours	8	_	\	ompressor 1 run hours	0-32767
•	1039	166	40167	38	nvoC2Hours	8	+		compressor 2 run hours	0-92767
	1040	167	40168	39		<u> </u>			pemp Trun hours	0-32767
	1041	168	40169	40		 	+		pump 2 nin Hours	0-32767
	1042	169	40170	41				R	software Version day	
,	1043	170	40171	42			- -		software version month:	
•	1044	171	40172	1 .	ical for eac	n	H-		not used	
	1045	172	40173	⊢∤mod	dule		H-	<i>**</i>	Not used	
	1046	173	40174	145			╧┼-	\sim	Not used	
	1047	174	40175	46			_		Not used	
•	1048	175	40176	47				738	master compressor I low pressure	0435
		176	40177	48			_	_	master compressor 1 high pressure	0495
	1049 1050	177	40178	49			_		mastar compressor 2 low pressure	0435
		178	40179	50					master compressor 2. high pressure	e-435
	1051	179	40180	51				R	slave 1 compressor 1 low pressure	6485
	1052	180	40181	52					slave 1 compressor 1 high pressure	0-435
	1053	181	40182	53				R	slave 1 compressor 2 low pressure	0-435
	1054	182	40183	54				R	slave 1 compressor 2 high pressure	0:495
	1055	183	40184	55			\perp	R	stave 2 compressor 1 low pressure	0.495
	1056	184	40185	56				R	slave 2 compressor 1 high pressure	0.435
	1057	185	40186	57				R	slave 2 compressor 2 low pressure	0435
	1058	186	40187	58				R	slave 2 compressor 2. high pressure	0.435
	1059	187	40188	59				R	slave 3 compressor 1 low pressure	0.435
_	1060	188	40189	60				R ;	siave 3 compressor 1 high pressure	0435
	1061	189	40190	61				R	slave 3 compressor 2 low pressure	0.435
	1062	190	40191	62				R	slave 3 compressor 2. high pressure	0-435
	1063	191	40192	63					slave 4 compressor 1 low pressure	0-435
-	1064	192	40193	64					slave 4 compressor 1 high pressure	0.435
							-			
-	1065	193	40194	65			- 1	R	slave 4 compressor 2 low pressure	0-436

	1067	195	40196	67		1	R	slave 5 compressor 4 low pressure	0-435
	1068	196	40197	68	İ		R	slave 5 compressor : high pressure	0.435
	1069	197	40198	69			R	slave 5 compressor 2 low pressure	0-435
	1070	198	40199	- 70		——	R	slave 5 compressor 2 high pressure	0.435
	1071	199	40200	71			R	slave 6 compressor 1 low pressure	0-435
	1072	200	40201	72	<u> </u>		R	slave 6 compressor 1 high pressure	0-435
	1073	201	40202	.73		<u> </u>	R	slave 6 compressor 2 low pressure	6.435
	1074	202	40203	74			R	slaye 6 compressor 2 high pressure	0-435
	1075	203	40204	75			R	slave7 compressor 1 low pressure	0:435
•	1076	204	40205	76			R	slave 7 compressor Thigh pressure	0-435
	1077	205	40206	77			R	slave 7 compressor 2 low pressure	0435
	1078	206	40207	78			R	slave 7 compressor 2 high pressure	0.435
	1079	207	40208	79			R	slave 8 compressor 1 low pressure	0-495
	1080	208	40209	80		İ	R	slave 8 compressor 1 high pressure	0-435
	1081	209	40210	81			R	Slave 8 compressor 2 low pressure	0-495
	1082	210	40211	82			R	Stave 8 compressor 2 high pressure.	0-435
	1083	211	40212	83			R	slave 9 compressor 1 low pressure	0.495
	1084	212	40213	84			R	slave 9 compressor 1 high pressure	0-435
	1085	213	40214	85			R	slave 9 compressor 2 low pressure	0.435
	1086	214	40215	86			R	slave 9 compressor 2 high pressure	0.435
	1087	215	40216	87			Ŕ	slave 10 compressor 1 low pressure	0.435
*	1088	216	40217	88		,	R	slave 10 compressor 1 high pressure	0435
	1089	217	40218	89			R	slave 10 compressor 2 low pressure	0.435
	1090	218	40219	90			R	slave 10 compressor 2 high pressure	0.435
	1091	219	40220	91			R	slave if 1 compressor 1 low pressure	0-435.
	1092	220	40221	92			R	slave 11 compressor 1 high pressure	0.435
	1092	221	40222	93			R	slave 11 compressor 2 low pressure	0-435
	1092	222	40223	94			R	slave 11 compressor 2 high pressure	0.435
	1092	223	40224	95			R	slave 12 compressor 1 low pressure	0-435
	1092	224	40225	96			R	slave 12 compressor 1 high pressure	0-436
	1092	225	40226	97		l	R	slave 12 compressor 2 low pressure:	0-435
	1092	226	40227	98			Ŕ	slave 12 compressor 2. Fligh pressure:	0-435
	1092	227	40228	99			R	slave 13 compressor 1 low pressure	0-435
	1092	228	40229	100			R	slave 13 compressor 1 high pressure	0-435
	1092	229	40230	101			R	slave 13 compressor 2 low pressure	0435
	1092	230	40231	102			R	slave 13 compressor 2 high pressure	0-435
	1092	231	40232	103			R	slave 14 compressor 1 low pressure	0-495
	1092	232	40233	104			R	slave 14 compressor 1 high pressure	0.435
	1092	233	40234	105			R	slave 14 compressor 2 low pressure	0-455
	1092	234	40235	106			R	slave 14 compressor 2. high pressure	0-435
	1092	235	40236	107			R	slave 15 compressor 1 low pressure	0-435
	1092	236	40237	108			R	slave 15 compressor 1 high pressure	0-435
•	1092	237	40238	109			R	slave 15 compressor 2 low pressure	0-435
	1092	238	40239	110			R	slave 15 compressor 2 high pressura	0-435

Pump Module parameters table

DACNET	BACNET I			:				
MSTP/IP/ETH	GATEWAY	MODBUS	CAREL	LON	FON			
1	BV instance	Coi	Digital	Name	Туре	R/W	DESCRIPTION	VALUE RANGE
ļ	-	10002	ļ			A.	dis Pump switchover reset	i=©losed
2	2	10003	2			œ	dl6 Pump 1 Local switch	Tast (all
က	3	10004	3			٣	d7 Pump 2 Local switch)=Closed
4	4	10005	4			œ	di8 Flow switch	TES Osed
5	5	10006	5			œ	di9 Tank level switch	1=Closed
9	မ	10007	9			R	di10 Phase monitor	1=Closed
7	7	10008				~	di11 Pump 1 overload	1=Closed
8	8	10009	8			œ	di12 Pump 2 overload	1=Closed
6	6	10010	6			~	do13 Pumps have switched	1=Closed
10	10	10011	10			ĸ	do7.Pump 1 status	NOS
11	11	10012	11			œ	dof2 Pump 2 status	NO.
12	12	10013	12			2	do9 Panel heater	1=ON
13	13	10014	13			ď	dos alampinesent	NO#1
14	14	10015	14				THE THEORY AND THE THE THEORY AND THE THEORY AND THE THEORY AND THE THEORY AND THE THE THE THEORY AND THE THEORY AND THE THEORY AND THE THE THE THE THE THE THE THE THE THE	
15	15	10016	15			æ	pelle i sciund Hos	1=Alarm
16	16	10017	16			2	Tank low alarm	1=Alarm
17	17	10018	17			8	phase alarm	1=Alarm
18	18	10019	18			~	pump 1 overload alarm	1=Alarm
19	19	10020	19			R	pump 2 overload alarm	1=Alarm
20	20	10021	20			2	panel temperature sensor failed	1≂Alarm
21	21	10022	21			α.	Differential pressure sensor 1 failed	1=Alarm
22	22	10023	22			Я	Differential pressure sensor 2 failed	1=Alarm
23	23	10024	23			Я	Pump suction pressure sensor failed	1=Alarm
24	24	10025	24			ਧ	Pump discharge pressure sensor failed	1=Alarm
25	25	10026	25			ድ	Pump flow sensor failed	1=Alarm
26	56	10027	26			R/W	System @N/OFF	NON.
27	27	10028				R/W	Alarm reset	1=Enabled
AV instance	AV instance	ANALOG	ANALOG					
	_	40002	_			œ	Panel temperature	"-45.0 to 185.0"
2	2	40003	2			œ	ao1 Differential pressure	0-100.0
AV instance	AV instance	ANALOG	INTEGER					
1001	129	40130	-			R	Differential pressure 1	N/A
1002	130	40131	2			R	Differential pressure 2	
1003	131	40132	က			ድ	Pump suction pressure	
1004	132	40133	4			R	Pump discharge pressure	
1005	133	40134	5			R	Pump flow	
1006	134	40135	9			R	Pump if run hours	
1007	135	40136				R	Pump 2 run hours	
1008	136	40137	8			R/W	Differential pressure set point	
1009	137	40138	6			R/W	Differential pressure band	