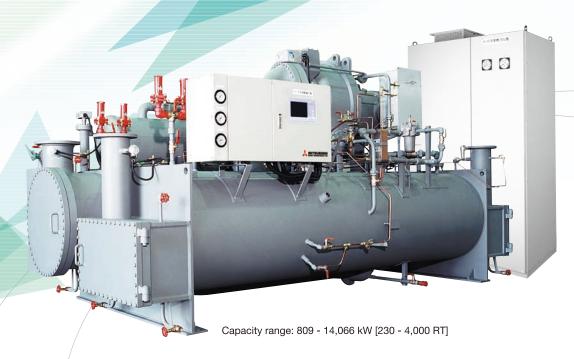
Two Stage Centrifugal Chiller

Variable Speed Drive

ARIS





Our Technologies, Your Tomorrow



The Highest Part Load Performance in the World!

<230 RT ~ 4,000 RT>



Optimum compressor speed control utilizing change of cooling water temperature influenced according to season



Operating with extremely high part load performance at entering temperature of low cooling water



Annual COP
Comparison with constant speed drive chiller
(AART series)

About 60%UP
(AART-100I cooling water 12°C, Industrial use pattern)

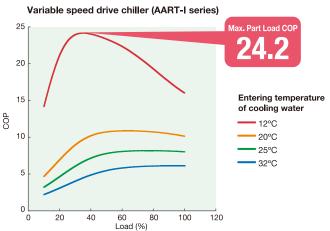
Save Cost & CO₂

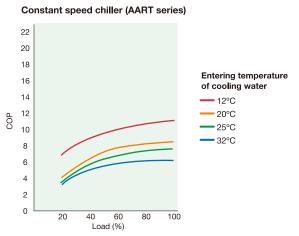
FEATURES

M

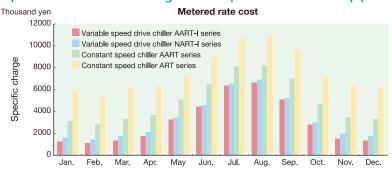
Max. Part Load COP 24.2

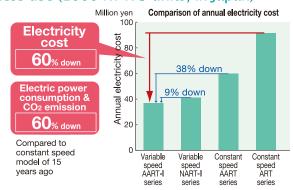
Performance characteristics (Leaving temperature of chilled water is 7°C, 1000 RT, in Japan)





Operation cost according to load pattern for factory process use (1000 RT x 3 units, in Japan)





OPERATION RANGE

Suitable for customer's demand (* As option)

Temperature

Chilled water leaving temperature

Lower limit:

Cooling water entering temperature

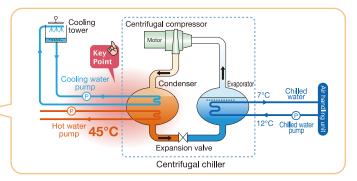
Lower limi

(Chilled water temperature: 7°C)

Hot water leaving temperature

Heat recovery use

Low temperature use (Brine)



Load

Capacity control range in a continuous operation

100% - close to

(Standard: 100%-20%)

Flow Rate

Chilled water / Cooling water flow rate control range

Variable flow rate

(Standard: 100%)

Chilled water flow rate control range

(Standard: 100%)

Excess flow rate

MICROCOMPUTER CONTROL PANEL

More improved_microcomputer control panel

Big 10.4 inch Display Clear **Digital Display Smooth Quick Response**

Liquid Crystal Display (LCD) with automatic lighting-up function

Relight-up by human detection sensor without touching panel

For environmental standards

Realize lead-free substrate RoHS compliant

Human detection sensor

Followings are displayed

 Operation data - Setup schedule operation condition - Failure dat
 Real time trend (max. 5 operational data and max. 3 situational data) - Setup schedule operation condition - Failure data

Other Features

Control Function (Option)

- Meeting with BAS (Building Automation System) requirement.
- Our chiller is compatible with LonWorks® networks.

 * LonWorks® is the registered trademark of Echelon company in the United States of America and other countries.
- Meeting with control monitoring equipment
- In case of instantaneous power failure, chiller restarts automatically.

Reliability

- · Stability of lubrication oil level and oil temperature improved with oil-cooler for refrigerant and high efficient oil recovering system.
- Chillers are produced at our factory certificated authentication ISO 9001 and 14001.

Maintenance

- Overhaul interval is 50,000 hour in operating time or 7 years in elapsed time, which comes earlier.
- · Marine type water box with hinge is provided as standard scope of supply for easier maintenance and inspection. Please contact with MHI about overhaul.

 The above overhaul time and operation time is for reference only.

Application to Low Brine Temperature Cooling

 Applicable for industrial use and ice storage system by adopting two stage compressor.

Standard Ratings

ARI 550-98 Condition

Ite	Model m (unit)	AART-	25 I	30 I	35 I	40 I	45 I	50 I	60 I	70 I	90 I	100 I	120 I	145 I	180 I	200 I		
	ooling capacity	RT	250	300	355	425	500	590	710	830	1,000	1,200	1,420	1,700	1,800	2,130		
	boling capacity	kW	879	1,055	1,248	1,494	1,758	2,075	2,497	2,919	3,516	4,220	4,993	5,978	6,329	7,490		
	Entering temperature	°C	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2		
<u></u>	Leaving temperature	°C							6	.7								
water	Flow rate	m³/h	137	165	195	233	274	324	389	455	548	658	779	932	987	1,168		
Chilled	Pressure drop	kPa	102	107	102	108	114	107	54	55	53	54	57	56	82	90		
ြင်	Piping connection / Nozzle size	inch	6	6	6	8	8	8	10	10	12	14	14	14	16	18		
	No. of pass	_	3	3	3	3	3	3	3 2 2 2 2 2 2									
	Entering temperature	°C							29).4								
ē	Leaving temperature	°C	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5		
g water	Flow rate	m³/h	173	208	245	294	344	405	487	570	687	825	974	1,167	1,231	1,459		
Cooling	Pressure drop	kPa	95	110	113	117	107	108	57	54	55	55	61	65	99	109		
ပြ	Piping connection / Nozzle size	inch	6	6	8	8	8	10	10	12	12	14	14	14	16	18		
	No. of pass	_	3	3	3	3	3	3	2	2	2	2	2	2	2	2		
le le	verter input	kW 50Hz	142	173	195	238	271	316	380	446	538	652	757	914	939	1,126		
"	iverter input	60Hz	146	177	199	242	275	320	383	450	543	657	766	922	949	1,136		
	lotor output	kW 50Hz	118	145	165	202	233	276	329	389	464	567	659	803	830	1,003		
LIV	otor output	60Hz	118	146	165	202	233	277	329	390	464	567	660	804	830	1,004		
	OP	50Hz	6.18	6.10	6.39	6.28	6.48	6.57	6.57	6.55	6.53	6.47	6.60	6.54	6.74	6.65		
	01	60Hz	6.01	5.95	6.28	6.19	6.40	6.49	6.52	6.49	6.48	6.42	6.52	6.48	6.67	6.59		

- Notes: 1. This specification is based on AHRI STANDARD 550/590-2003 conditions for temperature and fouling factor of chilled water and cooling water.
- 2. Max. working pressure (Chilled water and Cooling water): 1 MPa (G) 3. Unit capacity of over 2,000 RT up to 4,000 RT with dual compressors are available
- 4. The above specification is not data of max. cooling capacity.

5. Power source applicable is as follows

Voltage	Chiller o	capacity							
voltage	Less than 700 RT (Does not include 700)	More than 700 RT							
380 V-440 V	0	Option*1							
3000 V/3300 V	C)*2							
6000 V/6600 V	C	○*2							

- *1: Consult with MHI in case chiller capacity is more than 700 RT with 400 V class because it depends of motor output.
- *2: Consult with MHI
- 6. Design and specifications are subject to change without notice.

Options

Central Monitoring Program Connect to customer's central monitoring equipment

- 1) Output operation data at customer's central monitor through MHI smart communication terminal.
- 2) Operation data can be used for the following items at customer's central monitor.
- Operation status of chillers
- Daily report and monthly report etc.
- 3) Total connection/transmission distance of RS485 with max, 500 m

Feature of MHI specialized communication tool

- Compact size (W230 x H50 x D244 mm: excluding projection portion)
- Connected to AC 100 V plug
- High speed data processing by 32 bit CPU

Central monitoring RS485 Chiller Chiller : out of MHI scope

Remote Monitoring Program

24-hour and 365-day remote monitoring program is suitable for maintaining the performance and function of the centrifugal chiller.

Features

The remote monitoring program enables various performances.

- 1) Monitoring the operation status
- 2) Emergency response/treatment and report of the result
- 3) Submission of monthly report of data and customer's observation
- 4) Proposal for preventive maintenance and economical use based on the result of the analysis of accumulated data



Chilled Water Leaving Temperature 5°C

Item (unit) Model AART																	
It	em (unit) Model	AAR [*]	T-	25 I	30 I	35 I	40 I	45 I	50 I	60 I	70 I	90 I	100 I	120 I	145 I	180 I	200 I
	Cooling capacity	RT		215	260	310	380	430	530	600	750	850	1,050	1,300	1,500	1,800	2,000
,	booling capacity	kW		756	914	1,090	1,336	1,512	1,864	2,110	2,637	2,989	3,692	4,571	5,274	6,329	7,033
	Entering temperature	°C		10	10	10	10	10	10	10	10	10	10	10	10	10	10
water	Flow rate	m³/ł	n	130	157	187	229	259	319	362	452	512	633	784	904	1,085	1,205
N D	Pressure drop	kPa	ı	94	100	96	107	105	106	62	55	61	52	59	53	98	97
Chilled	Piping connection / Nozzle size	Α		150	150	150	200	200	200	250	250	300	350	350	350	400	450
	No. of pass	_		3	3	3	3	3	3	2	2	2	2	2	2	2	2
	Entering/Leaving temperature	°C							Enteri	ng 32°C	/ Leaving	37°C					
water	Flow rate	m³/ł	n	156	188	223	273	309	379	430	535	609	751	929	1,071	1,282	1,426
ing	Pressure drop	kPa	ı	77	90	95	101	87	94	62	61	61	62	55	55	106	104
Cooling	Piping connection / Nozzle size	Α		150	150	200	200	200	250	250	300	300	350	350	350	400	450
	No. of pass	_		3	3	3	3	3	3	2	2	2	2	2	2	2	2
	nverter input	50	Hz	145	171	200	243	275	326	379	460	539	653	812	924	1,099	1,219
'	inverter input	60	Hz	148	175	204	246	278	330	382	465	546	658	822	931	1,109	1,231
,	Actor cutout	50 EW	Hz	120	143	169	206	235	286	327	404	464	567	709	811	976	1,088
'	Motor output	60	Hz	120	144	170	206	235	286	327	404	466	567	711	811	977	1,090
	COP	50Hz		5.21	5.35	5.45	5.50	5.50	5.72	5.57	5.73	5.55	5.65	5.63	5.71	5.76	5.77
(201	60H	z	5.11	5.22	5.34	5.43	5.44	5.65	5.52	5.67	5.47	5.61	5.56	5.67	5.71	5.71

Chilled Water Leaving Temperature 7°C

Ite	Model (unit)	AART-	25 I	30 I	35 I	40 I	45 I	50 I	60 I	70 I	90 I	100 I	120 I	145 I	180 I	200 I
C	ooling capacity	RT	230	260	320	370	450	530	680	750	1,000	1,100	1,350	1,500	1,800	2,000
	Dolling Capacity	kW	809	914	1,125	1,301	1,582	1,864	2,391	2,637	3,516	3,868	4,747	5,274	6,329	7,033
	Entering temperature	°C	12	12	12	12	12	12	12	12	12	12	12	12	12	12
ater	Flow rate	m³/h	139	157	193	223	272	320	410	453	603	664	815	905	1,086	1,207
	Pressure drop	kPa	104	99	100	101	112	105	52	55	52	65	62	50	97	96
Chilled	Piping connection / Nozzle size	А	150	150	150	200	200	200	250	250	300	350	350	350	400	450
	No. of pass	_	3	3	3	3	3	3	2	2	2	2	2	2	2	2
	Entering/Leaving temperature	°C						Enteri	ng 32°C	/ Leaving	37°C					
water	Flow rate	m³/h	165	186	228	263	319	375	481	530	707	778	955	1,060	1,268	1,410
ing	Pressure drop	kPa	86	88	99	94	93	92	55	60	58	60	58	54	104	101
ပိ	Piping connection / Nozzle size	Α	150	150	200	200	200	250	250	300	300	350	350	350	400	450
	No. of pass	-	3	3	3	3	3	3	2	2	2	2	2	2	2	2
1	nverter input	50Hz	143	158	192	218	267	302	396	428	584	636	782	855	1,017	1,126
Ľ	iverter input	60Hz	147	162	196	220	270	305	399	433	589	641	792	862	1,028	1,136
	Notor output	kW 50Hz	118	132	162	185	228	264	343	373	505	551	682	749	903	1,003
	notor output	60Hz	119	133	163	185	228	264	343	374	505	551	684	749	904	1,004
	OP	50Hz	5.66	5.79	5.86	5.97	5.93	6.17	6.04	6.16	6.02	6.08	6.07	6.17	6.22	6.25
	,O1	60Hz	5.50	5.64	5.74	5.91	5.86	6.11	5.99	6.09	5.97	6.03	5.99	6.12	6.16	6.19

- Notes:

 1. Chilled/Cooling water fouling factor:
 0.000086 m²K/W (0.0001 m²h°C/kcal)

 2. Max. working pressure (Chilled water and Cooling water):
 1 MPa (G)

 3. Unit capacity of over 2,000 RT up to 4,000 RT with dual compressors are available.

 4. The above specification is not data of max. cooling capacity.

5. Power source applicable is as follows.

Voltage	Chi ll er o	capacity					
voltage	Less than 700 RT (Does not include 700)	More than 700 RT					
380 V-440 V	0	Option*1					
3000 V/3300 V	С)*2					
6000 V/6600 V	○*2						

*1: Consult with MHI in case chiller capacity is more than 700 RT with 400 V class because it depends of motor

output.
*2: Consult with MHI

^{6.} Design and specifications are subject to change without notice.

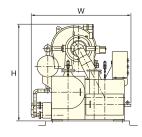
Dimensions and Weights

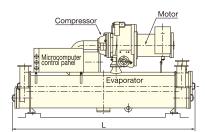
Chiller

Ite	Model m (unit)	AART-	25 I	30 I	35 I	40 I	45 I	50 I	60 I	70 I	90 I	100 I	120 I	145 I	180 I	200 I
2	Length (L)	m	4.5	4.5	4.6	4.6	4.6	4.7	5.4	5.5	5.5	5.5	5.6	5.6	6.4	6.4
iona	Width (W)	m	2.2	2.3	2.3	2.4	2.5	2.7	2.8	2.9	3.3	3.5	3.5	3.5	3.8	4.2
<u>.</u>	Height (H)	m	2.2	2.2	2.3	2.4	2.4	2.5	2.6	2.6	2.9	2.9	3.1	3.2	3.5	3.6
Sh	ipping weight	t	8.4	8.6	9.6	10.1	11.1	11.9	15.2	15.9	19.6	21.8	24.7	26.9	32.2	34.5

- Notes:

 1. The above shipping weight of chiller is weight of 1 piece shipment.
- 2. Design and specifications are subject to change without notice.





Service Clearance for Chiller

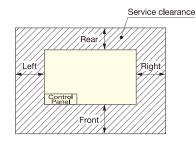
Chiller model	AART-	25 I	30 I	35 I	40 I	45 I	50 I	60 I	70 I	90 I	100 I	120 I	145 I	180 I	200 I
Front	m	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Both end	m	0.9	0.9	0.9	1	1	1	1.1	1.2	1.3	1.4	1.45	1.6	1.7	1.7
Rear	m	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9

Notes:

- 1. Service clearance must be provided more than above.
- Tube removal space must be provided at either end.
 The piping must be arranged with offsets for flexibility, and adequately supported and balanced independently to avoid strain and vibration transmission on the unit.

 4. Plumbing connections of the chilled water and the cooling water are made by welding flanges rating: JIS 10K.
- 5. Thermometers of chilled water and cooling water are furnished by purchaser 6. Prepare the hook for raising compressor and motor unit.
- 7. Refer to this figure to plan suitable and adequate entrance for machine installation, enough clearance should be provided. (Caution: This plan shows the size without insulation. After insulation, the size will increase by the thickness of insulator.)
- 8. Rubber bushing and rubber pad are MHI scope. Scope of foundation bolts, washers and nuts may refer to specification.

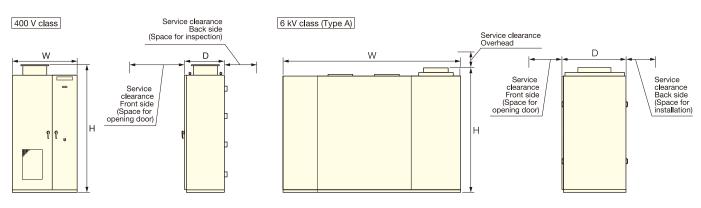
 9. The construction of foundation bed and installation work of foundation bolt are purchaser's scope.
- 10. The piping from the safety valve to outdoor are purchaser's scope.



Inverter Panel

Ch	niller	model	AART-	25 I	30 I	35 I	40 I		45 I			50 I			60 I			70 I		90	Ι	10	0 I	12	0 I	14	5 I	18	0 I	20	00 I
Vo	Itage)	_	400 V class	6 kV	class	6 kV	class	6 kV	class	6 kV	class	6 kV	class	6 kV	class	6 kV	dass													
Тур	pe of	inverter panel	_	_	_	_	_	_	Α	В	_	Α	В	_	Α	В	_	Α	В	Α	В	Α	В	Α	В	Α	В	Α	В	Α	В
<u>.</u>	W	idth (W)	m	1.30	1.30	1.30	1.30	1.80	3.71	4.10	1.80	3.71	4.10	2.10	3.71	4.10	2.10	3.71	4.10	3.71	4.10	4.11	5.10	4.11	5.10	4.11	5.10	4.11	5.10	4.11	5.10
Dimension	De	epth (D)	m	0.97	0.97	0.97	0.97	0.97	1.30	0.90	0.97	1.30	0.90	0.97	1.30	0.90	0.97	1.30	0.90	1.30	0.90	1.40	0.90	1.40	0.90	1.40	1.00	1.40	1.00	1.40	1.00
Ë	Не	eight (H)	m	2.60	2.60	2.60	2.60	2.60	2.81	2.84	2.60	2.81	2.84	2.60	2.81	2.84	2.60	2.81	2.84	2.81	2.84	2.81	2.90	2.81	2.90	2.81	2.90	2.81	2.90	2.81	2.90
Sh	ippin	ng weight	t	0.65	0.65	0.80	0.80	1.20	5.10	4.70	1.35	5.10	4.70	1.40	5.10	4.70	1.40	5.10	5.10	5.10	5.10	5.50	6.30	5.50	6.30	7.20	7.50	7.20	7.50	7.20	7.50
يو	S S	Front	m	1.10	1.10	1.10	1.10	1.10	1.60	0.70	1.10	1.60	0.70	1.10	1.60	0.70	1.10	1.60	0.70	1.60	0.70	1.60	0.70	1.60	0.70	1.60	0.70	1.60	0.70	1.60	0.70
	clearance	Back	m	0.65	0.65	0.65	0.65	0.65	0.60	_	0.65	0.60	_	0.65	0.60	_	0.65	0.60	_	0.60	_	0.60	_	0.60	_	0.60	_	0.60	_	0.60	_
Ů.	응	Overhead	m	0.55	0.55	0.55	0.55	0.55	1.10	1.60	0.55	1.10	1.60	0.55	1.10	1.60	0.55	1.10	1.60	1.10	1.60	1.10	1.60	1.10	1.60	1.10	1.60	1.10	1.60	1.10	1.60

- MHI have 2 type inverter panel in 6 kV and 3 kV class.
 Type A: Small space type for width Type B: Small space type for depth
- 2. Please contact with MHI about 3 kV class.



- 1. Refer to MHI drawing "MACHINE LAYOUT" and "INVERTER PANEL OUTLINE" at installation.
- 2. Service clearance must be provided more than above.

- 3. Shipping weight of inverter panel is approximate weight of standard specification.4. Design and specifications are subject to change without notice.

Scope of Supply

o: Standard scope of supply x: Not within scope of work of supply

△: To be supplied as option—: Not available

	Item	Specifications —. Not available	
		Indoor type (including control panel)	
	Chiller Assembly	Outdoor type (including control panel)	Δ
	Compressor	Hermetic, two-stage, centrifugal type	0
	Compressor Motor	Liquid refrigerant cooled, hermetic, squirrel cage, 3-phase, induction type motor, 2 pole, insulated grade B	0
	Step-up Gear	Integrated inside compressor housing, single helical gear	
	Lubrication System	Trochoid pump with submerged motor, refrigerant cooled oil cooler, single oil filter, oil heater with temperature control	0
	Lubrication System	Double oil filter	
		Japanese High Pressure Gas Safety Law and JIS	0
		Horizontal shell and tube type with copper tube (3/4"OD) Design pressure of water box: 1.0 MPa (G)	0
	Evaporator &	Marine type water box with hinge	0
	Condenser	Tube material other than copper (ex: cupronickel, admiralty brass, titanium)	
		Tube sheet material other than steel (ex: naval brass clad steel, titanium clad steel)	
		Design pressure of water box: Over 1.0 MPa (G)	
	0 (1 D)	High condensing pressure, Low evaporating pressure, Low oil pressure, Low chilled water outlet temperature,	
	Safety Device	Low chilled water flow rate, Low cooling water flow rate, High oil temperature, High compressor motor coil temperature,	
		Low voltage, Compressor motor over load	
ĭ	Microcomputer	Mounted on heat exchanger, indoor non hazardous type with color liquid crystal display,	
Equipment	Control Panel	lamps and control switches on microcomputer operation board	
ij		*Prepare 200/220 V three-phase as an auxiliary power. In case of other voltage, consult with MHI. Self standing, indoor, non hazardous type with a multi meter	
Щ		Self standing, indoor, hazardous type with a multi meter Self standing, outdoor, hazardous type with a multi meter	
	Inverter Panel	Power fuse medium voltage	$\frac{-}{\triangle}$
	ortor i diloi	Capacitor for power factor improvement	$\frac{\Delta}{\Delta}$
		380 V power for compressor motor (less than 710 kW)	
		10, 11 kV/50 Hz power for compressor motor	
		Tie transformer for control power (ex: 400/200 V)	
	Refrigerant	HFC134a in pressure bottles for one (initial) charge	
	Lubrication Oil	Ester oil in can for one (initial) charge	Tŏ
		A thermometer of oil reservoir, Sight glasses, Pressure gauges of condenser, evaporator and oil pressure,	
		Rubber pad of vibration isolating, Special insulation tape of compressor motor terminal,	
		Flow switch of chilled water and cooling water	
	Accessory	Foundation bolt	Δ
	Accessory	Spring pad for vibration isolating	
		Thermometer for chilled water and cooling water	
		Charging hose for refrigerant	
		General tool and tool box	\triangle
	Spare Parts	An oil filter element, A filter drier, A fuse for control panel	0
Ħ	Shop Test	Test in accordance with JIS B8621	0
Test	·	Test in accordance with AHRI STANDARD 550/590-2003 (depend on temperature condition)	
	Witness Test	Witness test at manufacture's (MHI) site	\triangle
ng	Chiller	Rust preventing paint	Ò
Painting	Cantual Daniel	Finish coat	\triangle
Pai	Control Panel	Rust preventing and finish coat (color: Munsel 5Y7/1)	$\stackrel{\circ}{\longrightarrow}$
	Inverter Panel	Rust preventing and finish coat (color: Munsel 5Y7/1) Not provided (Purchaser's scope. Instruction for insulation to be submitted.)	\downarrow \circ
Ins	ulation of Chiller	Please follow our INSULATION PROCEDURE.	—
		Polystylen form covered by Colored steel sheet 0.3 mm	
		FOB Kobe port in Japan	$\frac{1}{0}$
De	livery	Ex warehouse at Kobe port in Japan (on truck)	
		CIF port near Site	$\frac{\Delta}{\Delta}$
<u> </u>		Integrated style	
Shi	pping Style of Chiller	Divided style	$\overline{\Delta}$
S	Foundation	Customer's scope	×
Site Works		Chiller installation, setting of anchor bolt, water pipe and piping works, and cable and wiring works at site	
e	Installation	Supervisor for site installation	×
Sit	Commissioning	Supervisor for site commissioning	
		JIS (Japan Industrial Standard), JEC (Japanese Electrotechnical Committee),	
	Code and Standard	JEM (The Standard of Japan Electrical Manufacture's Association)	
		ASME ASTM (Steel Material only)	_
	Capacity Control	100-20%, Controlling compressor inlet guide vane (1st & 2nd stage) and hot gas bypass valve	0
(C)		100-0%, Larger hot gas bypass valve than standard	\triangle
	Control Interface	Interface and communication to Building Control System (Available only for LonWorks®)	Δ
Jer		Specification and scope of supply	
Others			
Other	Drawings	General arrangement (including foundation)	0
Other	Drawings	General arrangement (including foundation) Outline of control panel	0
Other	Drawings	General arrangement (including foundation) Outline of control panel Sequence diagram	0
Other	Drawings Documents	General arrangement (including foundation) Outline of control panel	0

Two Stage Centrifugal Chiller AART-I series

ISO 9001



Certificate number: JQA-0709 Date of certificate: December 16, 1994

Our Air-Conditioning & Refrigeration Systems Headquarters is an ISO (International Organization for Standardization) 9001 quality management system certified organization.

PED



Certificate: PED97/23/EC Module H1 Certificate number: 01 202]/Q-010001 Certified by: TÜV CERT (Germany) Date of certificate: April 22, 2001

Our Air-Conditioning & Refrigeration Systems Headquarters is a PED (Pressure Equipment Directive) 97/23/EC Module H1 certified organization.

ISO 14001



Certificate number: YKA 0771887 Date of certificate: June 26, 1998

Our Production Shop, Centrifugal & Absorption Chiller Dept., Air-Conditioning & Refrigeration Systems Headquarters is an ISO (International Organization for Standardization) 14001 environmental management system certified organization.

www.mhi.co.jp/en/products/category/centrifugal_chiller.html



👗 MITSUBISHI HEAVY INDUSTRIES, LTD.

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- Because of our policy of continuous improvement, we reserve right to make changes in all specifications without notice.
 Option items are included in the pictures of chiller.
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