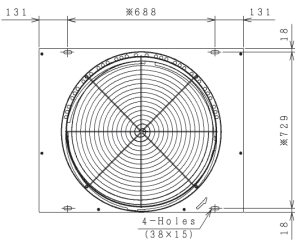
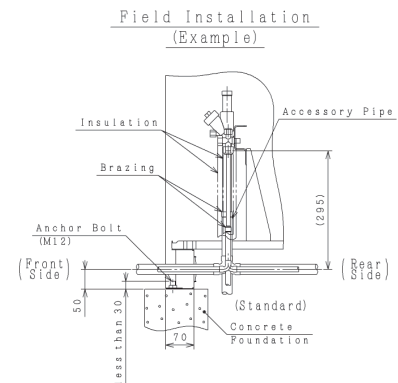
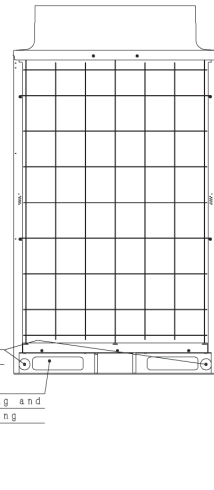
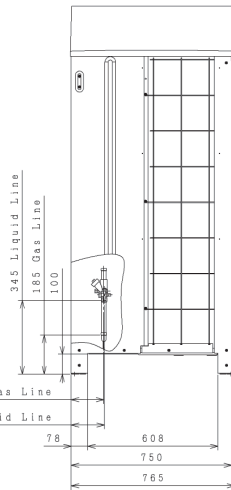
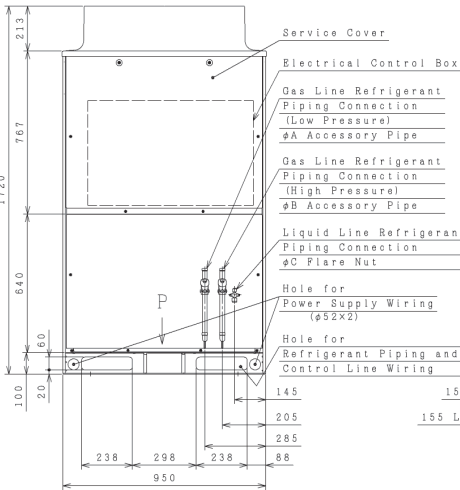
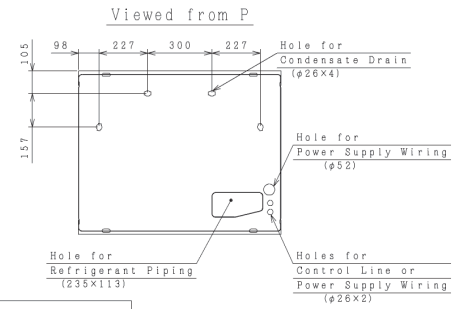


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DIMENSIONAL DRAWING OF HITACHI AIR-TO-AIR HEAT PUMP AIR CONDITIONER, SET-FREE
(OUTDOOR UNIT, MODELS: RAS-8FSXN, RAS-10FSXN and RAS-12FSXN)



Model	Dimension	A	B	C
8FSXN		19.05	15.88	9.53
10FSXN		22.2	19.05	9.53
12FSXN		25.4	22.2	12.7

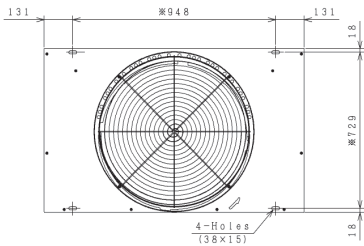


- NOTES:
1. Drain water is discharged from the unit during the operation.
 ◎Choose a place where well drainage is available. Provide a groove for drain.
 ◎Do not provide an upward slope from the unit to avoid reverse flow of the drain.
 Provide a second drainpan under the outdoor unit, to collect drain water securely.
 ◎Do not use the drain boss (optional) in a cold area.
 (Drain water in the drain pipe may be frozen and the drain pipe may crack.)
 2. The dimensions marked with * indicates the mounting pitch dimension for anchor bolts.

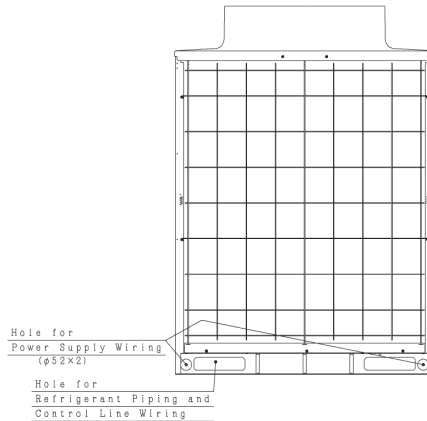
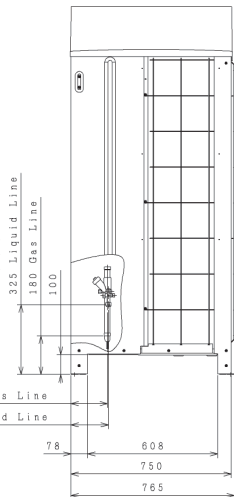
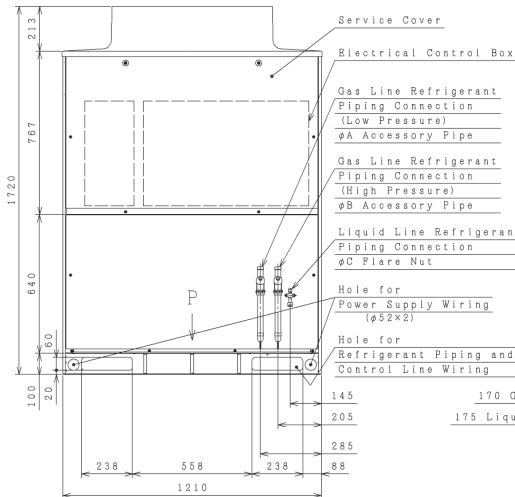
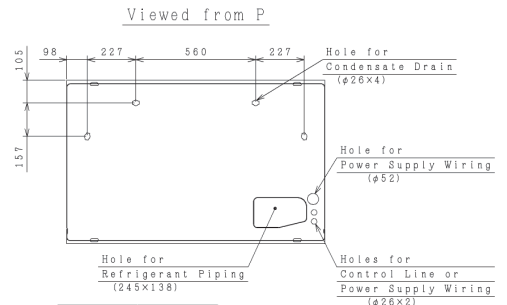
REMARKS	TITLE	PROJECTION	SCALE	REVISIONS				
				SYM.	DATE	REV.	CHKD.	APPD.
	DIMENSIONAL DRAWING	NTS						
UN: T. MATSUYAMA 22-12-2009 CHK: T. Aoyagi 22-12-2009 APP: S. Takayanagi 22-12-2009	SHIMIZU Dwg. No. Hitachi Appliances, Inc. Tokyo, Japan	317T136950	SH. 2009 12-22	REV. 12-22	APPD. 2009 12-22	CAD		

317T136951

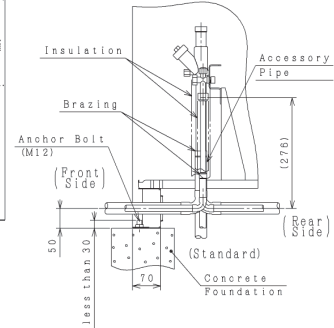
DIMENSIONAL DRAWING OF HITACHI AIR-TO-AIR HEAT PUMP AIR CONDITIONER, SET-FREE
(OUTDOOR UNIT, MODELS: RAS-14FSXN, RAS-16FSXN and RAS-18FSXN)



Model	Dimension	A	B	C
14FSXN		25.4	22.2	12.7
16FSXN		28.6	22.2	12.7
18FSXN		28.6	22.2	15.88



Field Installation (Example)

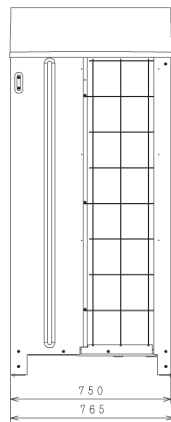
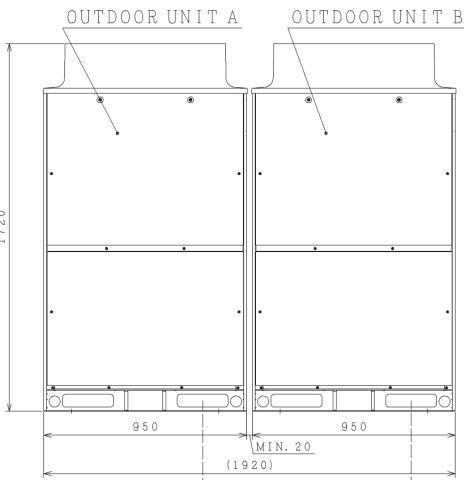
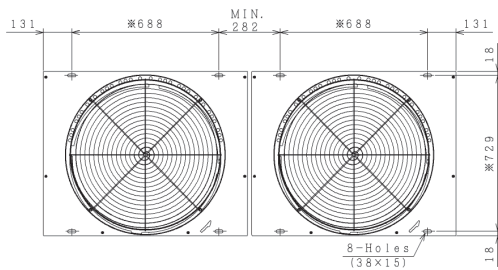


NOTES:

- Drain water is discharged from the unit during the operation.
 ◎Choose a place where well drainage is available. Provide a groove for drain.
 ◎Do not provide an upward slope from the unit to avoid reverse flow of the drain.
 Provide a second drainpan under the outdoor unit, to collect drain water securely.
 ◎Do not use the drain boss (optional) in a cold area.
 (Drain water in the drain pipe may be frozen and the drain pipe may crack.)
- The dimensions marked with * indicates the mounting pitch dimension for anchor bolts.

SYM.	DATE	REV.	CHKD.	APPD.
REVISIONS				
REMARKS		TITLE		PROJECTION
DIMENSIONAL DRAWING		SCALE		NTS
DRW. T. MABAYAMA 22-12-2009	SHIMIZU Dwg. NO.		SH.	REV. RECD.
CHKD. P. Aoyama 22-12-2009	Hitachi Appliances, Inc.			2009
APPD. S. Takayama 22-12-2009	Tokyo, Japan			12-22
317T136951				CAD

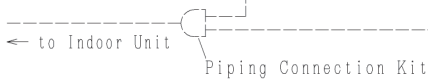
DIMENSIONAL DRAWING OF HITACHI AIR-TO-AIR HEAT PUMP AIR CONDITIONER, SET-FREE
(OUTDOOR UNIT, MODEL: RAS-20FSXN)



Outdoor Unit Model	Combination of Base Unit Models	
	OUTDOOR UNIT A	OUTDOOR UNIT B
RAS-20FSXN	RAS-12FSXN	RAS-8FSXN

NOTES:

1. Make sure that the outdoor unit A is placed on the indoor unit side. Arrange the outdoor units according to the capacity, A&B.
2. Check "Piping System" and "Dimensional Drawing" for the piping connection kit and piping connection size.
3. This drawing shows that there is 20mm clearance between the base units. Therefore pay attention to the width of outer dimension and anchor bolt mounting position.
4. The dimensions marked with * indicates the mounting pitch dimension for anchor bolts.

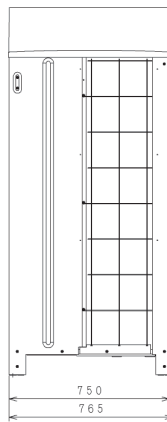
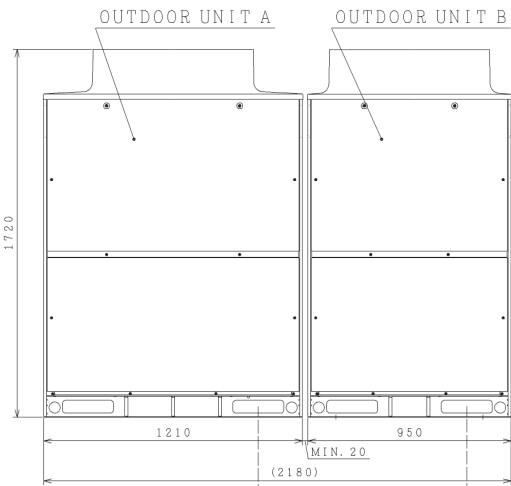
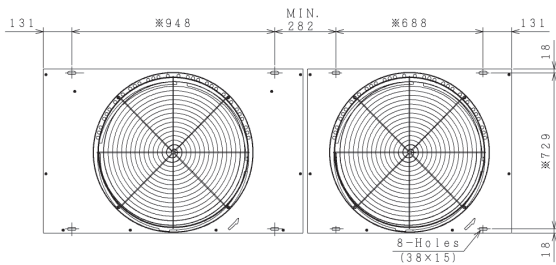


REMARKS	TITLE	PROJECTION	SCALE	SYM.	DATE	REV.	CHKD.	APPD.
				REVISIONS				
	DIMENSIONAL DRAWING	NTS						
DW: T. MABUYAMA 15-02-2010 CHK: T. Aoyu 15-02-2010 APP: S. Takayanagi 15-02-2010	Hitachi Appliances, Inc. Tokyo, Japan	SHIMIZU Dwg. No.	317T136952	SH.	REV.	2010 02-17		

CAD

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DIMENSIONAL DRAWING OF HITACHI AIR-TO-AIR HEAT PUMP AIR CONDITIONER, SET-FREE
 (OUTDOOR UNIT, MODELS: RAS-22FSXN, RAS-24FSXN and RAS-26FSXN)



← to Indoor Unit
 Piping Connection Kit

Outdoor Unit Model	Combination of Base Unit Models	
	OUTDOOR UNIT A	OUTDOOR UNIT B
RAS-22FSXN	RAS-14FSXN	RAS-8FSXN
RAS-24FSXN	RAS-14FSXN	RAS-10FSXN
RAS-26FSXN	RAS-14FSXN	RAS-12FSXN

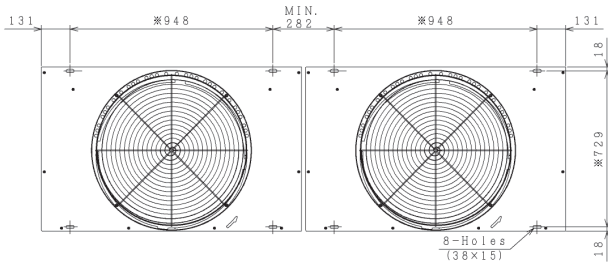
NOTES:

1. Make sure that the outdoor unit A is placed on the indoor unit side. Arrange the outdoor units according to the capacity, A&B.
2. Check "Piping System" and "Dimensional Drawing" for the piping connection kit and piping connection size.
3. This drawing shows that there is 20mm clearance between the base units. Therefore pay attention to the width of outer dimension and anchor bolt mounting position.
4. The dimensions marked with ※ indicates the mounting pitch dimension for anchor bolts.

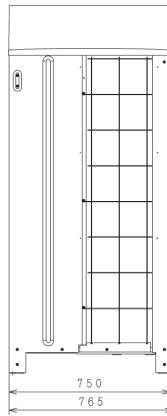
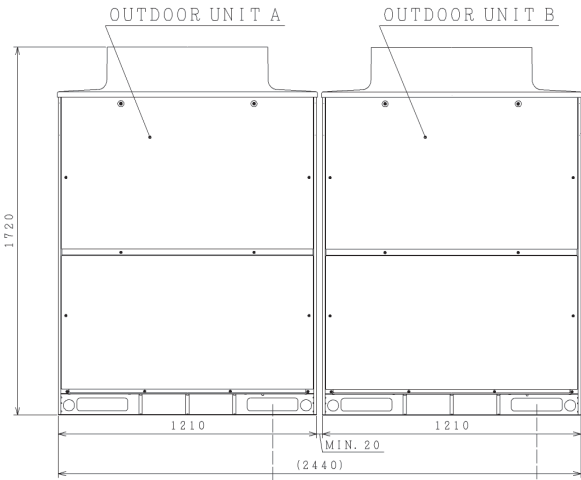
REMARKS	TITLE	PROJECTION	SCALE	SYMBOL	DATE	REV.	CHKD.	APPD.
	DIMENSIONAL DRAWING	NTS						
DW: T. MABUYAMA 15-02-2010 CHK: T. Aoyu 15-02-2010 APP: S. Takayama 15-02-2010	Hitachi Appliances, Inc. Tokyo, Japan	SHIMIZU Dwg. No. 317T136953	SH. 2010 02-17	CAD				

317T136954

DIMENSIONAL DRAWING OF HITACHI AIR-TO-AIR HEAT PUMP AIR CONDITIONER, SET-FREE
 (OUTDOOR UNIT, MODELS: RAS-28FSXN, RAS-30FSXN, RAS-32FSXN, RAS-34FSXN and RAS-36FSXN)



Outdoor Unit Model	Combination of Base Unit Models	
	OUTDOOR UNIT A	OUTDOOR UNIT B
RAS-28FSXN	RAS-14FSXN	RAS-14FSXN
RAS-30FSXN	RAS-16FSXN	RAS-14FSXN
RAS-32FSXN	RAS-16FSXN	RAS-16FSXN
RAS-34FSXN	RAS-18FSXN	RAS-16FSXN
RAS-36FSXN	RAS-18FSXN	RAS-18FSXN



NOTES:

1. Make sure that the outdoor unit A is placed on the indoor unit side.
 Arrange the outdoor units according to the capacity, A≧B.
2. Check "Piping System" and "Dimensional Drawing" for the piping connection kit and piping connection size.
3. This drawing shows that there is 20mm clearance between the base units.
 Therefore pay attention to the width of outer dimension and anchor bolt mounting position.
4. The dimensions marked with * indicates the mounting pitch dimension for anchor bolts.

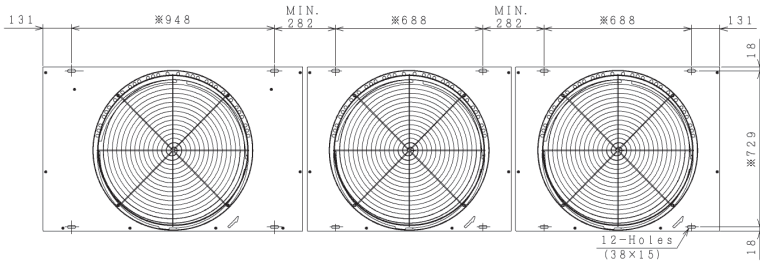
← to Indoor Unit
 Piping Connection Kit

REMARKS	TITLE	PROJECTION	SCALE	SYM.	DATE	REV.	CHKD.	APPD.
	DIMENSIONAL DRAWING	1st Angle	NTS					
DW: T. MABUYAMA 15-02-2010 CHK: T. Aoyama 15-02-2010 APP: S. Takigawa 15-02-2010	Hitachi Appliances, Inc. Tokyo, Japan	SHIMIZU Dwg. No. 317T136954	SH. 2010 02-17					

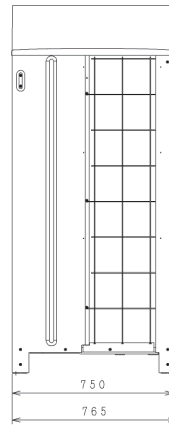
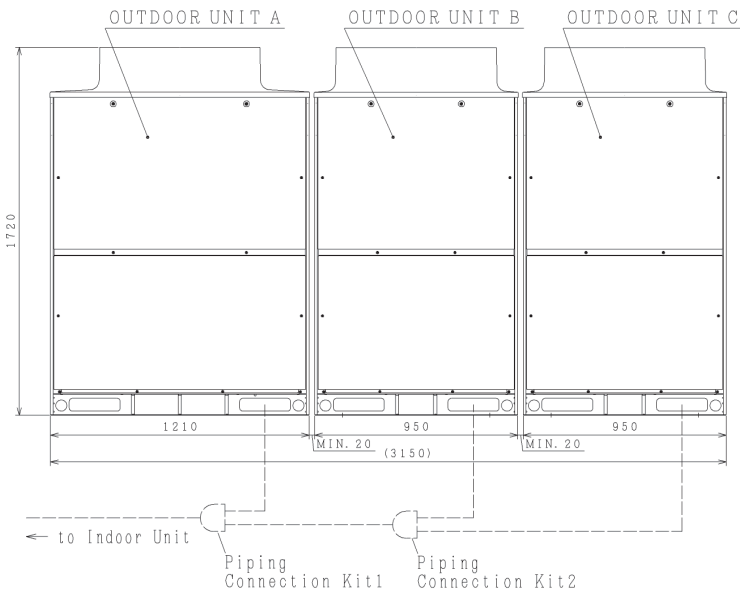
CAD

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DIMENSIONAL DRAWING OF HITACHI AIR-TO-AIR HEAT PUMP AIR CONDITIONER, SET-FREE
 (OUTDOOR UNIT, MODELS: RAS-38FSXN, RAS-40FSXN and RAS-42FSXN)



Outdoor Unit Model	Combination of Base Unit Models		
	OUTDOOR UNIT A	OUTDOOR UNIT B	OUTDOOR UNIT C
RAS-38FSXN	RAS-14FSXN	RAS-12FSXN	RAS-12FSXN
RAS-40FSXN	RAS-16FSXN	RAS-12FSXN	RAS-12FSXN
RAS-42FSXN	RAS-18FSXN	RAS-12FSXN	RAS-12FSXN



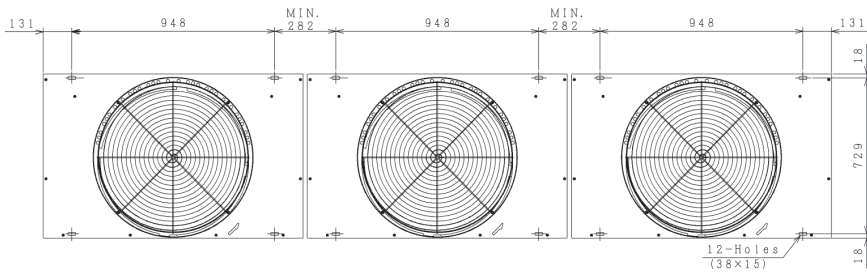
NOTES:

1. Make sure that the outdoor unit A is placed on the indoor unit side.
 Arrange the outdoor units according to the capacity, $A \geq B \geq C$.
2. Check "Piping System" and "Dimensional Drawing" for the piping connection kit and piping connection size.
3. This drawing shows that there is 20mm clearance between the base units.
 Therefore pay attention to the width of outer dimension and anchor bolt mounting position.
4. The dimensions marked with * indicates the mounting pitch dimension for anchor bolts.

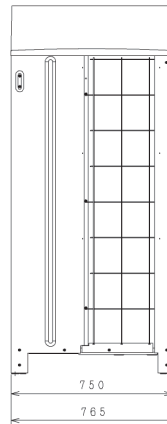
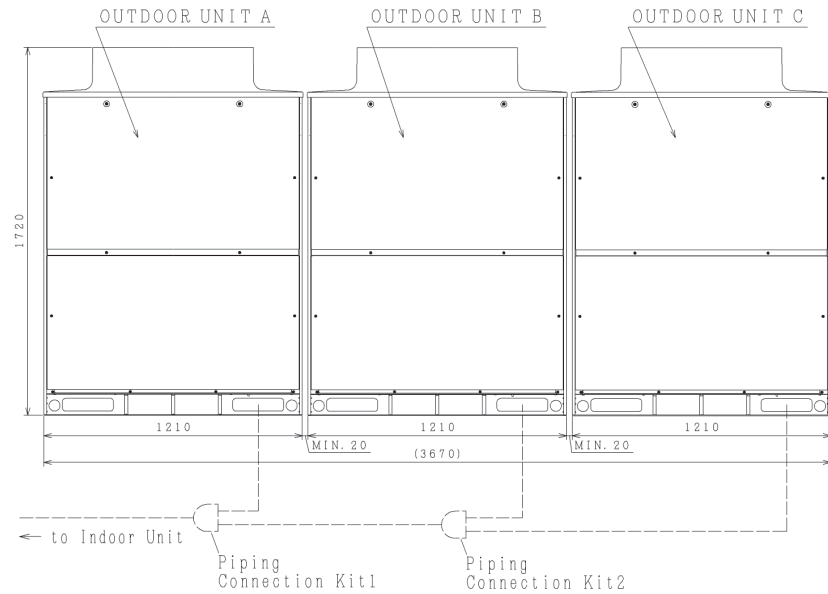
SYM.	DATE	REV.	CHKD.	APPD.
REVISIONS				
REMARKS		TITLE		PROJECTION
		DIMENSIONAL DRAWING		SCALE
				NTS
DRN	T. Muroyama	15-02-2010	SHIMIZU Dwg. No.	
CHK	T. Aoyama	15-02-2010	Hitachi Appliances, Inc.	
APP	T. Aoyama	15-02-2010	Tokyo, Japan	
317T136955			SH.	REV. RECD.
				2010 02-17
				CAD

317T136957

DIMENSIONAL DRAWING OF HITACHI AIR-TO-AIR HEAT PUMP AIR CONDITIONER, SET-FREE
 (OUTDOOR UNIT, MODELS: RAS-50FSXN, RAS-52FSXN and RAS-54FSXN)



Outdoor Unit Model	Combination of Base Unit Models		
	OUTDOOR UNIT A	OUTDOOR UNIT B	OUTDOOR UNIT C
RAS-50FSXN	RAS-18FSXN	RAS-18FSXN	RAS-14FSXN
RAS-52FSXN	RAS-18FSXN	RAS-18FSXN	RAS-16FSXN
RAS-54FSXN	RAS-18FSXN	RAS-18FSXN	RAS-18FSXN



NOTES:

1. Make sure that the outdoor unit A is placed on the indoor unit side.
 Arrange the outdoor units according to the capacity, $A \geq B \geq C$.
2. Check "Piping System" and "Dimensional Drawing" for the piping connection kit and piping connection size.
3. This drawing shows that there is 20mm clearance between the base units.
 Therefore pay attention to the width of outer dimension and anchor bolt mounting position.
4. The dimensions marked with * indicates the mounting pitch dimension for anchor bolts.

REMARKS	TITLE	PROJECTION	REVISIONS			
			SYM.	DATE	REV.	CHKD.
	DIMENSIONAL DRAWING	NTS				
UN: T. MABUYAMA 15-02-2010 CHK: T. Aoyu 15-02-2010 APP: S. Takayanagi 15-02-2010	Hitachi Appliances, Inc. Tokyo, Japan	SHIMIZU Dwg. No. 317T136957	SH. 2010 02-17	REV. 2010 02-17	RECD. 2010 02-17	

CAD