## SiE33-003

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## 1. Appendix of Installation

## 1.1 Example of Connection

			Branch with refnet joint	Branch with refnet joint	and refnet header	Branch v	with refnet h	header	
Connection of 8 indoor units Heat pump system indoor unit refnet joint refnet header			Outdoor unit REFNET joint (A-G) A = b + c + d + e + f + g + + H1 A = b + c + d + e + f + g + + H1 A = b + c + d + e + f + g + + H1 A = b + c + d + e + f + g + + H1 A = b + c + d + e + f + g + + H1 A = b + c + d + e + f + g + + H1 A = b + c + d + e + f + g + + H1 A = b + c + d + e + f + g + + H1 A = b + c + d + e + f + g + + H1 A = b + c + d + e + f + g + + H1 A = b + c + d + e + f + g + + H1 A = b + c + d + e + f + g + + H1 A = b + c + d + e + f + g + + H1 A = b + c + d + e + f + g + + H1 A = b + c + d + e + f + g + + H1 A = b + c + d + e + f + g + + H1 A = b + c + d + e + f + g + + H1 A = b + c + d + e + f + g + + H1 A = b + c + d + e + f + g + + H1 A = b + c + d + g + g + + H1 A = b + c + d + g + g + + H1 A = b + c + d + g + g + + H1 A = b + c + d + g + g + + H1 A = b + c + d + g + g + + H1 A = b + c + d + g + g + + H1 A = b + c + d + g + g + + H1 A = b + c + - + - + - + - + - + + - + + - +	Outdoor unit H1 Refnet header cn df en 1 2 3 4 Indoor units	REFNET joint (A-B)	Outdoor unit REFNET header H3 REFNET header H1 H1 H2 H2 H2 H2 H2 H2 H2 H2 H2 H2			
	Between outdoor and indoor units	Actual pipe length	Pipe length between outdoor and indoor units ≤ 100m						
Maximum allowable length		Actual pipe length Equivalent length	Example unit 8: $a + b + c + d + e + f + g + p \le 100m$	Example unit 6: $a + b + h \le 100m$ , u	unit 8: a + i + k ≤ 100m	Example unit 8: i ≤ 40m			
			Equivalent pipe length between outdoor and indoor units < 125m (assume equivalent pipe length of refnet joint to be 0.5m, that of refnet header to be 1m, calculation purposes)						
	Between outdoor unit (main) and outdoor unit (sub	Actual pipe length	Pipe length between outdoor unit (main) and outdoor unit $(sub)(Q) \le 5m$						
Allowable height length	Between outdoor and indoor units	Difference in height	Difference in height between outdoor and indoor units (H1) ≤ 50m ( ≤ 40m or less when oudoor unit is located in a lower position)						
	Between adjacent indoor units	Difference in height	Difference in height between adjacent indoor units (H2) ≤ 15m						
	Between outdoor unit (main) and outdoor unit (sub	Difference in height	Difference in height between outdoor unit (main) and outdoor	r unit (sub) (H3)≤5m					
Allowebb		Actual pipe length	Pipe length from first refrigerant branch kit (either refnet joint or refnet header ) to indoor unit ≤ 40m						
Allowable length after the branch Actual pipe length		Example unit 8: $b + c + d + e + f + g + p \le 40m$ Example unit 6: $b + h \le 40m$ , unit 8: $i + k \le 40m$ Example unit 8: $i \le 40m$							
Example of downstream indoor units			<ul> <li>door unit side.</li> <li>If the system capacity is &lt; 500, use KHRP26K40T + KHRP26K40TP</li> <li>If the system capacity is ≥ 500, use KHRP26K75T + KHRP26K75T</li> <li>For refnet joints other than the first branch, select the proper bran kit model based on the total capacity index (Refer to chapter "Con bination") of the indoor units installed after the first branch using the following table:</li> <li>example in case of refnet joint C; indoor units 3 + 4 + 5 + 6 + 7 + 8</li> </ul>	nch m- 330≤x<640 KHRP26K40T+KHRP26K40TP (Pipe size Reducer)	SK37T       • Branching is impossible between refnet header and indoor unit.       100≤x<160       KHRP26K18H         • Braducer)       • For systems with a total capacity of 640 and over, connect a refnet joint branch.       100≤x<640       KHRP26K40TP         • Braducer)       • For systems with a total capacity of 640 and over, connect a refnet joint branch.       100≤x<640       KHRP26K40H/KHRP26K40H			K18H K37H (HRP26K40HF	
Pipe size selection Pipe size = outer diameter x minimum wall thickness (Unit; mm). Use the included reducing joint which matches the pipe size.		Between outdoor unit and uppermost stream refrigerant branch kit • Select pipe size according to outdoor system name.	Pipe size connected to outdoor unit.           liquid         gas           RSXYP16K         \$19.1 \timest1.0         \$34.9 \timest1.3           RSXYP18-20K         \$19.1 \timest1.0         \$34.9 \timest1.3           RSXYP24K         \$19.1 \timest1.0         \$41.3 \timest1.7           RSXYP26-30K         \$22.2 \timest1.2         \$41.3 \timest1.7	<ul> <li>Between two immediately kits</li> <li>Select the proper pipe si capacity index (Refer to o tion") of indoor units comusing the following table.</li> <li>Select connection pipe s outdoor unit (table on the select a larger pipe size.</li> <li>Between refrigerant branunit</li> <li>Pipe size for direct connermust be the same as the indoor unit.</li> </ul>	ize based on the total chapter "Combina- nected downstream, size according to the e bottom left). Do not inch kit and indoor ection to indoor unit	otal capacity index           <100           100≤×<160           160≤×<330           330≤×<480           480≤×<640           ≥640           connection pipe s           otal capacity index           20,25,32,40           50,63,80           100,125           200           250	\$\phi_9.5\to.8\$         \$\phi_12\$           \$\phi_9.5\to.8\$         \$\phi_12\$           \$\phi_12.7\to.8\$         \$\phi_12\$           \$\phi_12.7\to.8\$         \$\phi_22\$           \$\phi_15.9\to.1\$         \$\phi_32\$           \$\phi_19.1\to.1\$         \$\phi_32\$           \$\phi_19.1\to.1\$         \$\phi_42\$           \$\phi_9.5\to.8\$         \$\phi_12\$           \$\phi_9.5\to.8\$         \$\phi_12\$           \$\phi_12.7\to.8\$         \$\phi_12\$	34.9×t1.3 41.3×t1.7	
Additional refrigerant to be charged Calculation of additional refrigerant to be charged R (kg) is in function of the total length of liquid lines L Note - Round off R to 1 decimal place				et header for RSXYP28 φ6.4×10m : φ6.4×9m	D23] +0 :RSXYP16,18,24,2 +0.4:RSXYP30 +0.6:RSXYP26 +0.8:RSXYP20	28		<u><u><u></u></u></u>	

Installation Manual

## Appendix of Installation

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