

Date: 07/21/2020

Subject: Reduced Unit Installation Clearance for Side Discharge Outdoor Units

Models: RAC, CAC, FJM

Reduced Unit Installation Clearance for Side Discharge Outdoor Units

Some applications may require installation of outdoor units in closer proximity to other outdoor units than what is published in standard outdoor unit installation manuals. For the models specified below, the clearance between two outdoor units can be decreased when air guides are applied. Details regarding clearances and requirements are detailed on the following pages.

ODU Model Type	ODU Model Number	US Code
Quantum	AR09KSFPDWQXCV	N/A
	AR12KSFPDWQXCV	N/A
	AR18KSFPDWQXCV	N/A
	AR24KSFPDWQXCV	N/A
Quantum 2.0	AR09TSFYBWKXCV	RXS09YBT
	AR12TSFYBWKXCV	RXS12YBT
	AR18TSFYBWKXCV	RXS18YBT
	AR24TSFYBWKXCV	RXS24YBT
Smart Pearl	AR09KSWDHWKXCV	N/A
	AR12KSWDHWKXCV	N/A
Smart Whisper	AR09KSWSJWKXCV	N/A
	AR12KSWSJWKXCV	N/A
	AR18KSWSJWKXCV	N/A
	AR24KSWSJWKXCV	N/A
Wind-Free™* RAC	AR09MSWXCWKXCV	N/A
	AR12MSWXCWKXCV	N/A
	AR18NSWXCWKXCV	N/A
	AR24NSWXCWKXCV	N/A
Wind-Free™* RAC 2.0	AR09TSFABWKXCV	RXS09ABT
	AR12TSFABWKXCV	RXS12ABT
	AR18TSFABWKXCV	RXS18ABT
	AR24TSFABWKXCV	RXS24ABT
Max Heat® RAC	AR09KSWSPWKXCV	N/A
	AR12KSWSPWKXCV	N/A
	AR18NSWSPWKXCV	N/A
	AR24NSWSPWKXCV	N/A
DVM S Eco Heat Pump	AM036TXMDCH/AA	N/A
	AM048TXMDCH/AA	N/A
	AM053TXMDCH/AA	N/A
	AM060MXMDCH/AA	N/A
DVM S Eco Heat Recovery	AM036NXMDCH/AA	N/A
	AM048NXMDCH/AA	N/A
	AM053NXMDCH/AA	N/A
	AM060NXMDCH/AA	N/A

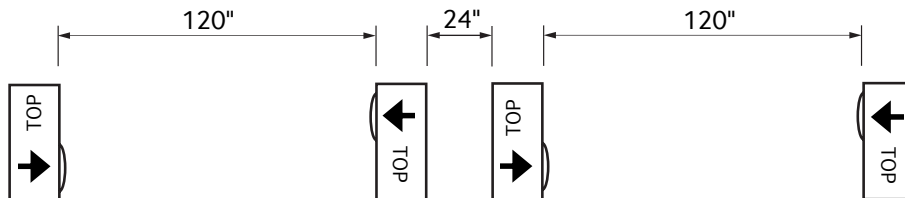
ODU Model Type	ODU Model Number	US Code
Max Heat® RAC 2.0	AR09TSFACWKXCV	RXS09ACT
	AR12TSFACWKXCV	RXS12ACT
	AR18TSFACWKXCV	RXS18ACT
	AR24TSFACWKXCV	RXS24ACT
FJM	AJ020JCJ2CH/AA	N/A
	AJ024JCJ3CH/AA	N/A
	AJ036JCJ5CH/AA	N/A
FJM 2.0	AJ020TXJ2CH/AA	JXH20J2T
	AJ024TXJ3CH/AA	JXH24J3T
	AJ036TXJ4CH/AA	JXH36J4T
	AJ048TXJ5CH/AA	JXH48J5T
FJM Max Heat®	AJ020MCS3CH/AA	N/A
	AJ024MCS4CH/AA	N/A
	AJ030MCS4CH/AA	N/A
FJM Max Heat® 2.0	AJ020TXS3CH/AA	JXH20S3T
	AJ024TXS4CH/AA	JXH24S4T
	AJ030TXS4CH/AA	JXH30S4T
	AJ036TXS4CH/AA	JXH36S4T
Standard CAC	AC009KXADCH/AA	CXH09ADK
	AC012KXADCH/AA	CXH12ADK
	AC018JXADCH/AA	CXH18ADJ
	AC018KXADCH/AA	CXH18ADK
	AC024JXADCH/AA	CXH24ADJ
	AC030JXADCH/AA	CXH30ADJ
	AC036JXADCH/AA	CXH36ADJ
	AC042JXADCH/AA	CXH42ADJ
	AC048JXADCH/AA	CXH48ADJ
Max Heat® CAC	AC054KXADCH/AA	CXH54ADK
	AC030JXSCCH/AA	CXH30SCJ
	AC036JXSCCH/AA	CXH36SCJ

* The Wind-Free™ unit delivers an air current that is under 0.15 m/s while in Wind-Free™ mode. Air velocity that is below 0.15 m/s is considered "still air" as defined by ASHRAE 55-2013 (American Society of Heating, Refrigerating, and Air-Conditioning Engineers).

Clearances

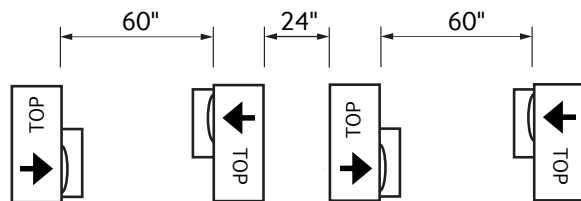
Standard Outdoor Unit Clearances (minimum)

Additional installation clearances are available in the applicable outdoor unit installation manuals. Always refer to the installation manual for full installation details and other requirements that are not noted in this document.



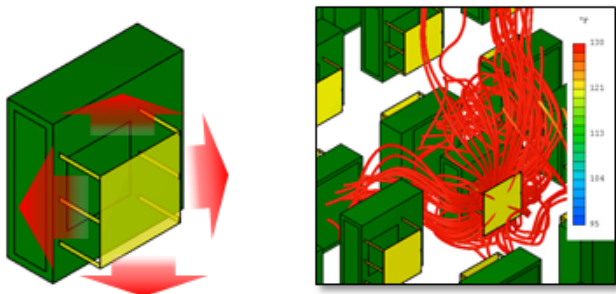
Modified Outdoor Unit Clearances (minimum)

When applying field provided air guides, the distance between outdoor units blowing towards each other can be reduced as noted below.

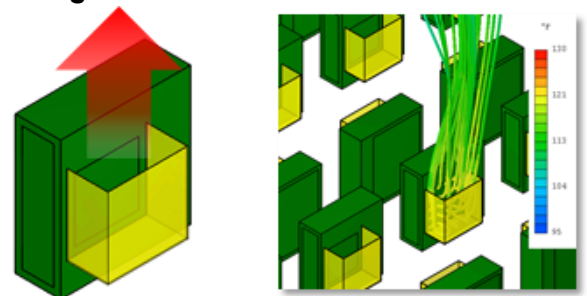


Standard wind baffles provided by Samsung HVAC (WBF-*M, WBF-*M-B) are not acceptable for this application. The air guide must have a closed bottom and sides (excluding holes for water drainage). See page 3 of this document for recommended air guide dimensions.

Not allowed: WBF*M, WBF-*M-B



Design with enclosed bottom and sides

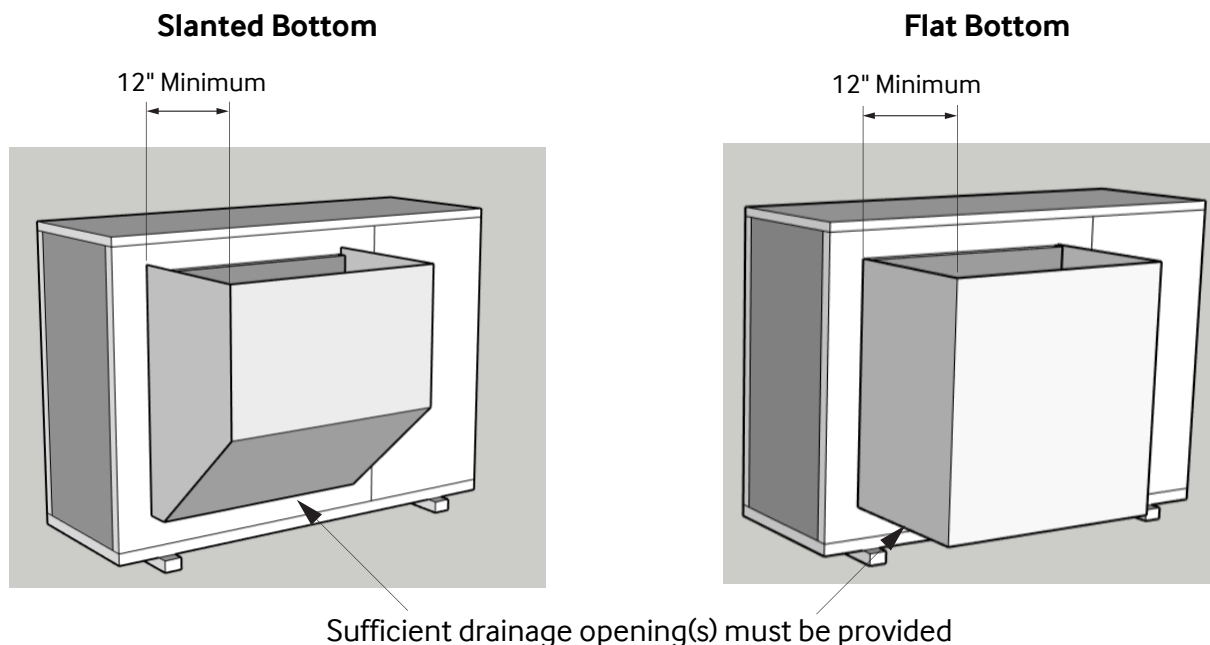


NOTE: The example above shows an air guide with a flat bottom. The bottom can be angled to promote better water drainage.

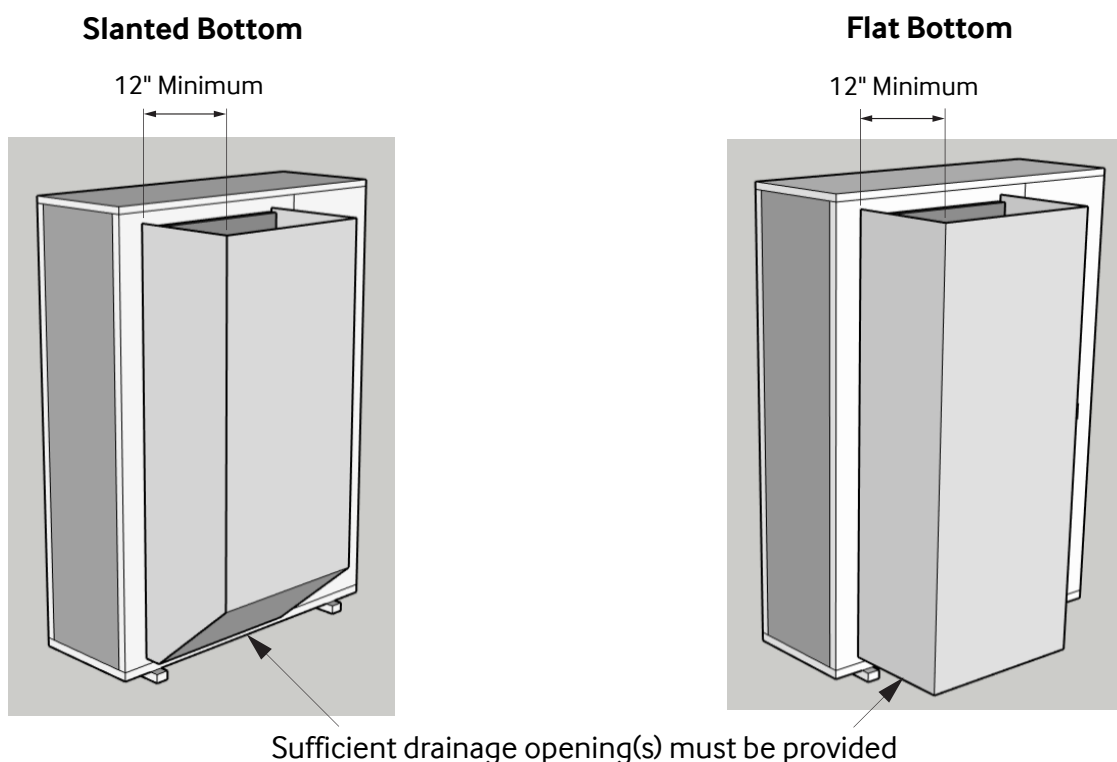
Dimensions

The air guide depth must be 12" minimum from the outdoor unit. The width must cover the entire fan outlet.

Single Fan Models



Dual Fan Models



Samsung HVAC maintains a policy of ongoing development, specifications are subject to change without notice.