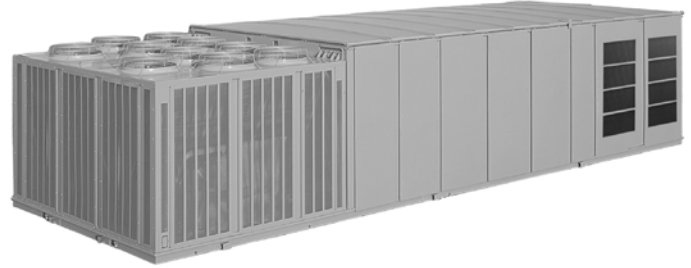




Product Specifications

IntelliPak™ II

IntelliPak II Hybrid High & Ultra High Efficiency Rooftop Units (120 ton)



March 2020

RT-PRC066C-EN

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TECHNOLOGIES

In today's market, customers are demanding higher efficiency HVAC solutions because excellent energy efficiency means lower operating costs. The IntelliPak II now has a two design specials focused solely on this purpose: a hybrid IntelliPak II with a reduction in compressor size and a Direct Drive Plenum supply fan.

With the compressor reduction design special, a High Efficiency Unit can reach an EER of 11.4 and higher as well as an IEER of up to 15.9. With the addition of the Direct Drive Plenum Supply Fan, the Ultra High Efficiency can get up to 11.9 EER and 16.4 IEER.

Mechanical Specifications

The IntelliPak II hybrid unit offers a higher efficiency option through utilizing a reduced compressor size. This offering employs the 120 ton high capacity unit only. Two options are available: utilizing 20/25 ton compressor sets or 20/20 ton compressor sets. One should note that there is a capacity reduction and the resulting tonnage of the unit is reduced. Additional efficiency gains can be made by employing the beltless 44.5 inch Direct Drive Plenum supply fan design special option. See document RT-PRC063A-EN for details on application and performance.

High Efficiency 120 ton - Option shall use [4- 20 ton] or [2-20 ton, 2- 25 ton] compressors on 2 circuits while maintaining the High capacity 120 ton cabinet and condenser and evaporator coils.

In order to achieve Ultra High Efficiency, also use the Mechanical Specification for the Direct Drive Plenum supply fan in document RT-PRC063A-EN.

Disallowables

- 130-150 Ton Cabinet/Coils Options
- -120 Ton Standard Capacity Option
- 50 Hz
- Hot Gas Reheat
- Hot Gas Bypass

Efficiency Performance

High Eff IPak 120	EER	IEER
Standard Unit	10.7	15.0
With 20/25 ton compressors	11.2	15.4
With 20/20 compressors	11.4	15.9
Ultra High Eff IPak 120 With DDP		
Standard Unit	11.1	15.4
With 20/25 ton compressors	11.6	16.0
With 20/20 ton compressors	11.9	16.4

Note: Data given at AHRI rating conditions

Pricing

Please see Large Commercial Product Support or Abigail Adkins (Abigail.Adkins@trane.com) for pricing.

Electrical Data

Please reference the electrical service sizing data in the catalog (RT-PRC027-EN) for how to calculate the electrical data for the IntelliPak II. Replace the compressor data with the table below dependent upon compressor selection.

Compr Size (Ton)	Qty per Unit	460V		575V		380V		
		RLA	LRA	RLA	LRA	RLA	LRA	
20T/20T	20T	4	34.1	215	27.3	175	34	215
	20T	2	34.1	215	27.3	175	34	215
20T/25T	25T	2	44.7	260	35.8	210	44.6	260

If a DDP fan is also used to gain efficiency, reference document RT-PRC063A-EN for the new Supply Fan electrical data.

Table 1. Hybrid unit with 20/25 ton compressors (Quantity 2 each size)

Air Flow CFM	Ent DB (°F)	Ambient Temperature																							
		85				95				105				115											
		Entering Wet Bulb Temperature																							
		61		67		73		61		67		73		61		67		73							
TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC								
21000	75	1153	840	1283	809	1410	768	1197	1197	1285	685	1411	644	1170	1090	1294	1058	1409	521	1163	968	1291	934	1414	890
	80	1106	816	1235	786	1364	748	1161	1161	1238	663	1364	625	1126	1065	1247	1034	1362	502	1116	941	1245	912	1369	870
	85	1051	791	1180	761	1309	725	1103	1126	1184	638	1310	603	1070	1033	1194	1008	1307	480	1060	913	1192	887	1316	848
	90	998	767	1121	738	1247	701	1048	1092	1125	619	1249	579	1016	1002	1135	978	1245	455	1007	886	1132	860	1257	824
26000	75	1223	935	1346	892	1474	839	1306	1306	1350	740	1472	688	1249	1240	1361	1190	1469	537	1228	1083	1353	1043	1476	989
	80	1174	909	1295	869	1423	819	1267	1267	1300	718	1421	669	1206	1206	1314	1168	1419	518	1180	1058	1305	1020	1423	968
	85	1051	882	1236	843	1369	797	1222	1222	1243	693	1366	647	1161	1161	1260	1141	1361	496	1121	1026	1250	993	1370	947
	90	998	856	1174	818	1306	773	1161	1186	1181	672	1302	623	1103	1127	1201	1113	1295	472	1065	995	1187	963	1308	923
31000	75	1271	1018	1390	970	1516	908	1386	1386	1394	789	1515	730	1325	1325	1410	1318	1511	552	1285	1197	1397	1142	1517	1084
	80	1220	992	1344	947	1460	886	1346	1346	1343	768	1460	709	1284	1284	1363	1296	1458	532	1237	1172	1348	1119	1461	1061
	85	1163	962	1286	921	1404	865	1300	1300	1285	743	1403	688	1237	1237	1310	1271	1398	511	1182	1143	1292	1093	1405	1038
	90	1105	933	1222	893	1340	842	1247	1247	1220	721	1338	665	1175	1200	1251	1242	1328	486	1123	1109	1228	1063	1341	1011
36000	75	1305	1096	1426	1039	1546	975	1450	1450	1425	837	1546	770	1386	1386	1453	1440	1543	565	1329	1306	1428	1237	1563	1182
	80	1254	1070	1376	1016	1488	954	1405	1405	1374	816	1488	749	1344	1344	1404	1404	1488	546	1279	1279	1378	1214	1489	1147
	85	1195	1040	1317	990	1429	932	1358	1358	1314	791	1430	728	1296	1296	1358	1358	1424	524	1229	1229	1321	1188	1429	1123
	90	1135	1009	1252	960	1365	909	1304	1304	1249	768	1364	705	1241	1241	1303	1303	1352	500	1168	1192	1256	1159	1365	1097
41000	75	1331	1172	1451	1107	1569	1041	1501	1501	1450	883	1570	809	1436	1436	1500	1500	1568	578	1370	1370	1452	1331	1569	1257
	80	1279	1146	1399	1083	1509	1020	1452	1452	1398	862	1510	788	1391	1391	1451	1451	1512	559	1326	1326	1399	1307	1509	1232
	85	1219	1116	1340	1057	1448	999	1402	1402	1337	838	1450	767	1342	1342	1402	1402	1445	537	1275	1275	1342	1282	1447	1207
	90	1158	1082	1274	1027	1383	976	1346	1346	1268	812	1383	744	1286	1286	1346	1346	1372	521	1219	1219	1277	1252	1381	1181
46000	75	1351	1245	1470	1172	1587	1108	1543	1543	1469	929	1588	848	1477	1477	1542	1542	1588	591	1409	1409	1471	1423	1588	1342
	80	1299	1219	1417	1148	1526	1087	1491	1491	1416	909	1528	827	1428	1428	1490	1490	1531	572	1364	1364	1415	1399	1524	1316
	85	1238	1189	1358	1122	1463	1065	1437	1437	1354	885	1464	809	1378	1378	1437	1437	1460	549	1313	1313	1358	1358	1460	1291
	90	1176	1154	1290	1092	1397	1042	1379	1379	1285	858	1391	785	1321	1321	1379	1379	1387	533	1254	1254	1292	1292	1393	1264
51000	75	1367	1317	1486	1237	1603	1175	1580	1580	1485	975	1604	887	1511	1511	1579	1579	1606	604	1442	1442	1485	1485	1603	1426
	80	1314	1292	1430	1212	1540	1153	1523	1523	1431	954	1542	867	1459	1459	1522	1522	1546	585	1395	1395	1428	1428	1535	1399
	85	1253	1253	1371	1186	1475	1103	1466	1466	1369	930	1476	848	1408	1408	1466	1466	1472	561	1343	1343	1371	1371	1471	1374
	90	1190	1190	1303	1155	1408	1074	1406	1406	1298	904	1403	823	1349	1349	1405	1405	1399	544	1284	1284	1304	1304	1402	1347
54000	75	1375	1360	1494	1275	1611	1186	1599	1599	1494	1002	1612	911	1529	1529	1599	1599	1615	612	1460	1460	1492	1492	1610	1476
	80	1322	1322	1437	1250	1547	1161	1539	1539	1439	982	1551	894	1476	1476	1539	1539	1554	592	1411	1411	1434	1434	1541	1449
	85	1261	1261	1378	1224	1481	1135	1482	1482	1376	958	1474	867	1423	1423	1482	1482	1476	574	1359	1359	1376	1376	1476	1424
	90	1198	1198	1310	1193	1413	1110	1420	1420	1305	900	1400	841	1364	1364	1420	1420	1402	557	1299	1299	1310	1310	1406	1396

Table 2. Hybrid unit with 20 ton compressors (quantity 4)

Air Flow CFM	Ent DB (°F)	Ambient Temperature																							
		85				95				105				115											
		Entering Wet Bulb Temperature																							
		61		67		73		61		67		73		61		67		73							
TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC								
21000	75	1053	788	1170	756	1283	715	1115	1115	1173	633	1283	592	1074	1036	1181	1001	1281	470	1065	913	1178	881	1287	836
	80	1009	766	1126	736	1243	697	1081	1081	1130	614	1241	575	1035	1014	1140	980	1239	453	1024	890	1136	861	1244	819
	85	959	743	1075	713	1196	678	1043	1043	1080	592	1193	556	992	990	1092	957	1188	433	973	864	1085	837	1198	800
	90	911	721	1021	692	1141	657	991	991	1026	574	1137	535	942	941	1038	928	1131	412	924	838	1031	812	1144	778
26000	75	1114	877	1221	837	1335	784	1207	1207	1226	685	1333	635	1152	1152	1237	1131	1330	485	1118	1025	1229	983	1336	933
	80	1069	854	1173	816	1288	766	1172	1172	1181	666	1287	617	1116	1116	1196	1111	1285	468	1081	1005	1185	963	1288	915
	85	1019	828	1130	794	1240	748	1131	1131	1129	644	1238	599	1075	1075	1148	1088	1231	449	1033	979	1136	939	1240	894
	90	968	803	1074	770	1184	727	1086	1086	1072	625	1180	578	1021	1021	1095	1063	1170	427	981	950	1080	913	1185	871
31000	75	1152	957	1262	909	1368	852	1275	1275	1261	733	1368	676	1220	1220	1281	1257	1365	499	1170	1137	1263	1080	1387	1042
	80	1106	934	1217	888	1318	834	1237	1237	1215	715	1319	658	1183	1182	1237	1237	1318	483	1127	1115	1219	1060	1319	1002
	85	1054	907	1165	864	1269	815	1196	1196	1162	693	1268	639	1140	1140	1196	1196	1261	463	1080	1080	1169	1037	1269	981
	90	1002	880	1107	838	1212	795	1149	1149	1104	672	1210	619	1092	1092	1148	1148	1198	449	1026	1047	1112	1011	1213	958
36000	75	1180	1034	1288	976	1393	919	1328	1328	1287	780	1394	715	1271	1271	1328	1328	1392	513	1213	1213	1288	1174	1395	1109
	80	1134	1010	1242	956	1341	901	1286	1286	1241	762	1342	697	1232	1232	1285	1285	1342	496	1174	1174	1242	1153	1341	1087
	85	1080	984	1190	932	1289	882	1243	1243	1186	740	1291	679	1189	1189	1243	1243	1281	476	1129	1129	1192	1131	1287	1066
	90	1026	954	1131	905	1232	862	1195	1195	1125	716	1231	659	1139	1139	1195	1195	1217	462	1079	1079	1135	1105	1231	1043
41000	75	1201	1108	1307	1042	1413	986	1372	1372	1306	826	1413	755	1313	1313	1372	1372	1414	527	1252	1252	1307	1267	1414	1195
	80	1154	1085	1260	1022	1359	968	1326	1326	1260	808	1361	737	1270	1270	1326	1325	1361	509	1213	1213	1259	1246	1356	1172
	85	1100	1058	1208	998	1305	949	1279	1279	1204	787	1297	722	1227	1227	1279	1279	1295	488	1167	1167	1209	1209	1301	1150
	90	1045	1026	1148	972	1248	906	1230	1230	1141	763	1248	698	1176	1176	1230	1230	1230	473	1115	1115	1151	1151	1244	1127
46000	75	1217	1181	1322	1107	1429	1032	1409	1409	1322	872	1467	842	1347	1347	1409	1409	1432	540	1285	1285	1321	1321	1428	1279
	80	1170	1157	1274	1086	1373	1009	1358	1358	1275	854	1376	776	1302	1302	1357	1357	1375	522	1244	1244	1271	1271	1367	1255
	85	1115	1115	1222	1064	1317	987	1309	1309	1218	833	1307	753	1257	1257	1308	1308	1305	500	1198	1198	1222	1222	1312	1233
	90	1059	1059	1162	1037	1259	963	1257	1257	1157	808	1242	730	1206	1206	1257	1257	1240	485	1145	1145	1163	1163	1253	1210
51000	75	1230	1230	1335	1171	1442	1088	1440	1440	1336	918	1523	941	1376	1376	1440	1440	1447	553	1313	1313	1333	1333	1440	1363
	80	1182	1182	1285	1149	1383	1067	1386	1386	1269	890	1389	815	1328	1328	1385	1385	1385	534	1270	1270	1281	1281	1378	1339
	85	1127	1127	1233	1126	1326	1041	1334	1334	1231	847	1334	798	1280	1280	1333	1333	1316	518	1224	1224	1231	1231	1320	1316
	90	1071	1071	1173	1099	1268	1019	1279	1279	1167	817	1267	774	1229	1229	1279	1279	1250	502	1170	1170	1173	1173	1259	1259
54000	75	1236	1236	1341	1209	1448	1122	1456	1456	1343	918	1453	862	1392	1392	1456	1456	1454	561	1328	1328	1338	1338	1445	1413
	80	1188	1188	1290	1186	1388	1101	1401	1401	1294	896	1396	839	1342	1342	1400	1400	1390	541	1283	1283	1286	1286	1383	1383
	85	1133	1133	1238	1163	1331	1077	1346	1346	1237	869	821	821	1293	1293	1346	1346	1321	524	1237	1237	1236	1236	1324	1324
	90	1077	1077	1178	1136	1272	1053	1290	1290	1173	838	780	797	1241	1241	1290	1290	1255	509	1182	1182	1177	1177	1263	1263

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