



CFC ALTERNATIVES-REPLACEMENT GUIDE

SINGLE COMPONENT REFRIGERANTS

<u>ASHRAE NUMBER</u>	<u>COMPONENT</u>	<u>REPLACES</u>	<u>APPLICATION</u>
R-22	R-22	CFC-12	Residential, Commercial, Frozen food storage, Industrial cooling
R-134a	R-134a	CFC-12	Medium temperature refrigeration, Appliance, Commercial & Automotive
R-123	R-123	CFC-11	Centrifugal chillers
R-124	R-124	CFC-114	Commercial, Heat pumps, Marine chillers
R-125	R-125	CFC-502	Low temperature commercial, Frozen food storage
R-23	R-23	CFC-13	Low & medium temperature refrigeration and air conditioning

AZEOTROPES & BLENDS (NARM'S)

<u>ASHRAE NUMBER</u>	<u>COMPONENTS</u>	<u>REPLACES</u>	<u>APPLICATION</u>
R-401A (MP39)	(22/152a/124)	CFC-12	Medium temp blends for appliances, Refrigeration
R-401B (MP66)	(22/152a/124)	CFC-12	Medium temp and transportation
R-402A (HP80)	(22/125/propane)	CFC-502	Low temp refrigeration blend
R-402B (HP81)	(22/125/propane)	CFC-502	Low temp refrigeration blend
R-404A (HP62)	(125/143a /134a)	CFC-502	Low temp refrigeration blend
R-407A (Klea-60)	(32/125/134a)	CFC-502	Low temp NARM (HFC)
R-407B (Klea-61)	(32/125/134a)	CFC-502	Low temp NARM (HFC)
R-407C (Klea-66) (AC9000)	(32/125/134a)	HCFC-22	Low temp NARM (HFC)
R-408A (FX10)	(125/143a/22)	CFC-502	Low temp NARM
R-409A (FX56)	(22/124/142b)	CFC-12	Low temp refrigeration blend
R-410A (AZ-20)	(32/125)	HCFC-22	Residential & Commercial air conditioning (Azeotrope)
R-507 (AZ-50)	(125/143a)	CFC-502	Low temp refrigeration (Azeotrope)