

Klimanet

MOVINCOOL Spot Coolers



SPOT COOLING POWERED BY *DENSO*



SPOT COOLERS AND COMFORT AIR-CONDITIONERS OPERATION RANGE

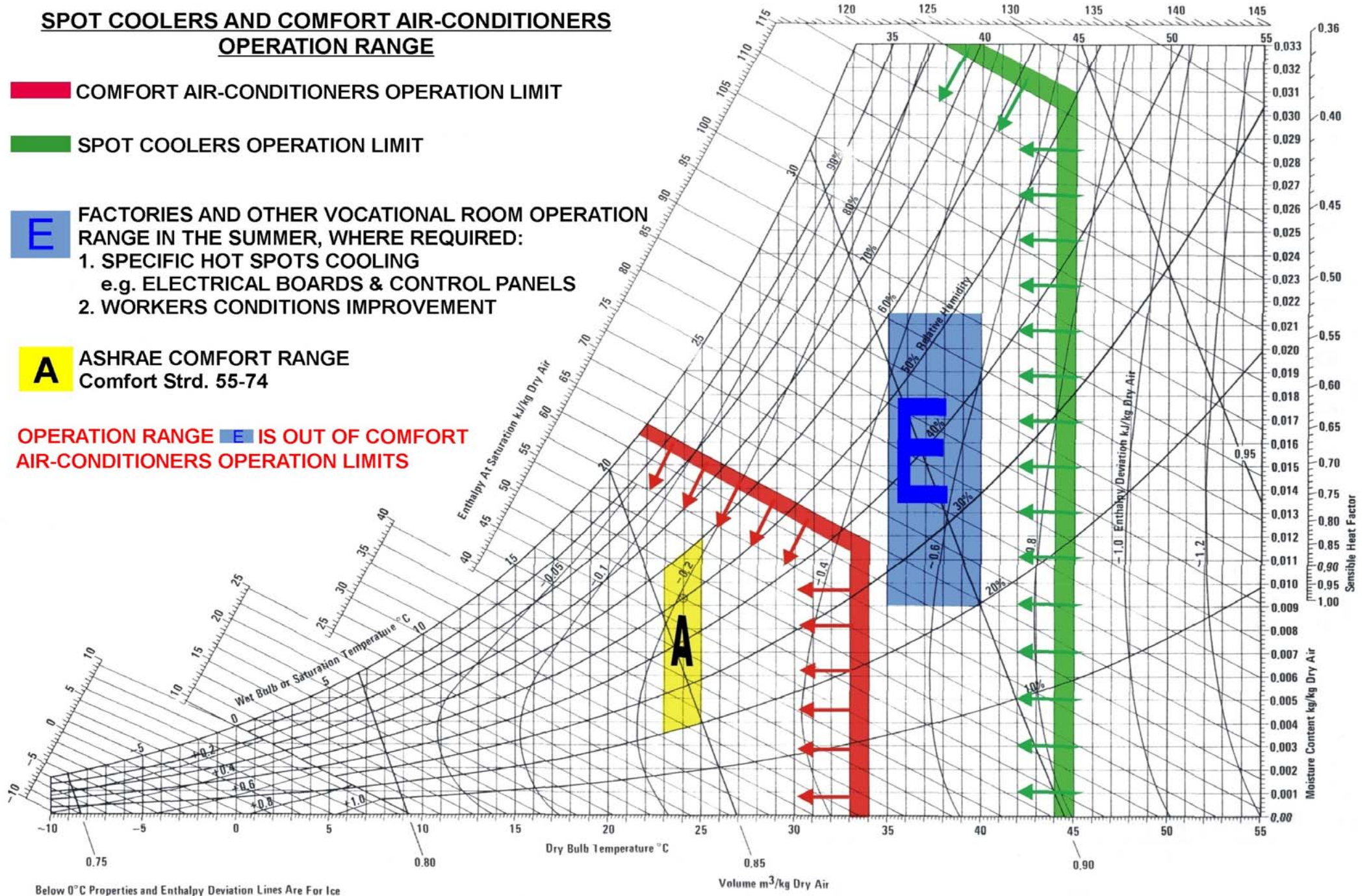
COMFORT AIR-CONDITIONERS OPERATION LIMIT

SPOT COOLERS OPERATION LIMIT

E FACTORIES AND OTHER VOCATIONAL ROOM OPERATION RANGE IN THE SUMMER, WHERE REQUIRED:
 1. SPECIFIC HOT SPOTS COOLING
 e.g. ELECTRICAL BOARDS & CONTROL PANELS
 2. WORKERS CONDITIONS IMPROVEMENT

A ASHRAE COMFORT RANGE
 Comfort Strd. 55-74

OPERATION RANGE E IS OUT OF COMFORT AIR-CONDITIONERS OPERATION LIMITS



Below 0°C Properties and Enthalpy Deviation Lines Are For Ice

What is Spot Cooling

In a few words, **Spot Cooling** is the ability to instantly and effectively cool specific overheated spots in areas where is unprofitable or impossible to install a conventional (fixed) air conditioning system.

What are MOVINCOOL Spot Coolers

Movincool Spot Coolers are **portable industrial type cooling** machines, **air-cooled** and completely **independent**, which:

- Focus cool air flow exactly where is required.
- Are very easily transferred from one point to another.
- Instantly cool when connected to power supply and lower, in a few minutes, 10°C to 16°C hot spots temperatures.
- Are suitable for machine, equipment, products and workers cooling in any hot area, even outdoors.
- Are easily and simply installed, without requiring any permanent and fixed position or provision.

Movincool Spot Coolers are completely different from simple portable air conditioners:

- **They are able to operate in temperature and relative humidity conditions where conventional air conditioners are not able to.**
If, for example, someone attempts to cool an overheated spot (e.g. electrical board) in a hot room with a DX cooling unit (wall or ducted type, open type, single package) then look what happens: Compressor **will fail**, because the return to the coil air is hotter than the machine can take.
Movincool will operate efficiently without any problem even at 40-45°C constantly.
- **Movincool** performances start from **8.000 Btu/h** (2,3 kW) up to **60.000 Btu/h** (17,6kW), while conventional portable machines performances rarely go over 12.000 Btu/h (3,5kW).
- **Movincool** electrical parts, independency and protection system are designed for industrial use, while in conventional portable machines, are of light type, due to their different usage. **Movincool** have powerful centrifugal fans and large drain pans with 5lt capacity in order to operate for many hours without having to be emptied.

Why MOVINCOOL Spot Coolers

Movincool Spot Coolers is the **economical, flexible, reliable, efficient** and in some cases the only **solution** for hot spot cooling in any hot area.

Movincool cools exclusively the desirable spots:

Machines, products, workers without being affected by nearby areas and ensures the regular progress of productive procedure.

Movincool are manufactured by **DENSO Japan**, which is mainly owned by **TOYOTA. DENSO**. The company is a **leader** in the world market of car air conditioners and supplies **TOYOTA, Mercedes-Benz, General Motors, Renault**, etc.

It also produces electronic and electrical systems for cars, robots, as well as other high quality and high tech products.

Movincool are factored by **KLIMANET TECHNIKI AEBE**, which is a leader in Greek professional air conditioning market regarding high quality specialized services and introduction of important innovations.

Movincool are offered by KLIMANET'S network not only for purchase but as well for **LEASING** just for the requisite time.

MOVINCOOL Spot Coolers applications

Movincool have many and continuously growing applications:

- Machine and fittings cooling:
 - ✦ Electronic and Telecommunication equipment, Telecommunication centrals etc.
 - ✦ Computers, servers, networks etc.
 - ✦ Electric boards, relays etc.
 - ✦ Production machines, air-compressors etc.
 - ✦ Radiological , tomography machines etc.
- Products cooling:
 - ✦ In production and assembly lines.
 - ✦ In packaging lines.
 - ✦ In storage and distribution areas.
- Workers and open exhibitions air conditioning:
 - ✦ In industrial areas and hovels.
 - ✦ In laboratories and workshops.
 - ✦ In cookeries, dry cleaner's, bakeries etc.
 - ✦ In open areas (labor areas, concerts and theatricals, sport events, restaurants, cafeterias etc)
 - ✦ In filmmaking, TV production and photograph shooting studios.
 - ✦ In social meetings (weddings, christenings etc.)

With **Movincool**, **KLIMANET'S** customers found **economical, quick** and **efficient** solutions to previously unsolved problems:

- They coped with machines and equipment overheating, which lead to recession or even temporary interruption of production line or / and affected products quality.
- They significantly improved workers productivity in overheated areas.
- They created very pleasant conditions for open-air events and activities.

				
	10SFE	15SFE-1	30HE	50 HE
Cooling performance*	8.000 Btu/h (2,5 kW)	15.200 Btu/h (4,5 kW)	32.400 Btu/h (10 kW)	54.600 Btu/h (16 kW)
Consumed power	0,84 kW	1,7 kW	3,4 kW	5,5 kW
Cooling system	DX µε R407C	DX µε R407C	DX µε R407C	DX µε R407C
Power supply	220V-1ph-50Hz	220V-1ph-50Hz	380V-3ph-50Hz	380V-3ph-50Hz
Operation current	3,9 Amp.	8,2 Amp.	6 Amp.	11 Amp.
Operating conditions (machine intake air temperature limits)	Min 25°C, 50%RH Max 40°C, 50%RH	Min 20°C, 50%RH Max 40°C, 50%RH	Min 20°C, 50%RH Max 45°C, 50%RH	Min 20°C, 50%RH Max 45°C, 50%RH
Dimensionsç	LxWxH: 410x440x910mm	LxWxH: 490x670x1045mm	LxWxH: 1100x650x985mm	LxWxH: 1250x800x1040
Weight	66kg	76kg	160kg	200kg
Compressor type	Rotary	Rotary	Scroll	Scroll
Fan type: Evaporator Condenser	Centrifugal Centrifugal	Centrifugal Centrifugal	Centrifugal Axial	Centrifugal Axial
Air supply	Evaporator 360 m³/h Condenser 800 m³/h	Evaporator 800 m³/h Condenser 1500 m³/h	Evaporator 1500 m³/h Condenser 4000 m³/h	Evaporator 2300 m³/h Condenser 5500 m³/h
Noise level	57 at 1m	64 at 1m	70 at 1m	71 στο 1m
Air outlets number	1	2	3-6	3-6
Air outlet speed	9m/s at outlet	9m/s at every outlet	-	-
Temperature ΔT Air n/Out	10 – 16°C	10 – 16 °C	10 - 16°C	10 - 16°C
External static pressure	200 m³/h – 80Pa 100 m³/h – 115Pa	600 m³/h – 60Pa 400 m³/h – 110Pa	1500 m³/h – 140Pa 750 m³/h – 360Pa	2300 m³/h - 140 Pa 1150 m³/h - 360 Pa

* Measurement conditions: 35°C / 60% RH

Klimanet

One step ahead!

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