



EZ Way, Inc.

BRIDGEAIR  TM
SINGLE PATIENT USE

Transfer and Repositioning System

Technical Data Guide

The BridgeAir Single Patient Use Mattress is designed to adhere to your facility's policies and protocols around safe patient handling, infection prevention and skin care.

The primary function of the BridgeAir is to decrease and prevent injuries associated with patient lateral transfers and repositioning tasks. In addition, BridgeAir is well received by skin care teams to assist in decreasing shearing and friction, performing repositioning and turning, and maintaining a positive microclimate environment for proper skin care.

Bridge Healthcare provides technical data to assist clinical care teams in adhering to and establishing necessary protocols to promote the BridgeAir's utilization and compliance throughout a facility.

This document contains three primary areas most often requested by our clinical partners:

Force Data Test

Provides test data confirming the reduction of force required when using the BridgeAir. This is important to ensure you are meeting national guidelines from organizations such as the ANA, NIOSH or OSHA, as well as your internal policies.

Pressure Study Test

Provides test data confirming very little change in mmHG pressure on the skin when a patient is supine on an uninflated BridgeAir. Many facilities will leave the uninflated mattress underneath the patient when not in use to increase caregiver use compliance; the mattress is always underneath the patient so log rolling, or repeated placement is unnecessary.

Water Vapor Transmission Rates

Provides test data confirming a positive factor in creating an ideal microclimate environment necessary for maintaining skin integrity and wound healing. Water Vapor Transmission Rate (WVTR) is the steady state rate at which water vapor permeates through a film at specified conditions of temperature and relative humidity. BridgeAir far exceeds an acceptable WVTR allowing the majority of its users to leave the uninflated mattress underneath the patient during their entire length of stay.

Force Data

Product: BridgeAir Air Transfer Mattress

Purpose: Perform a function test determine force required to move BridgeAir Transfer Mattress utilizing BridgeAir Pump Supply.

Test Procedure and Conditions

First test air flow rate of BridgeAir pump and then apply the functional integration test with the BridgeAir transfer mattresses utilizing pressure gauge EQ-1093 and airflow gauge EQ-2202.

Test Environment: Voltage: 117V60HZ Temperature : 25±10°C

Relative humidity: 50%RH±25

Results

Item	Specification	Result
Pressure	2: 15mmHG (450kg)	28~40mmHG(450kg)
Airflow	2: 2500 L/MIN.	4091 L/MIN
Pull(450kg)	:S 25kgf	Avg. 13.5 kgf

Summary

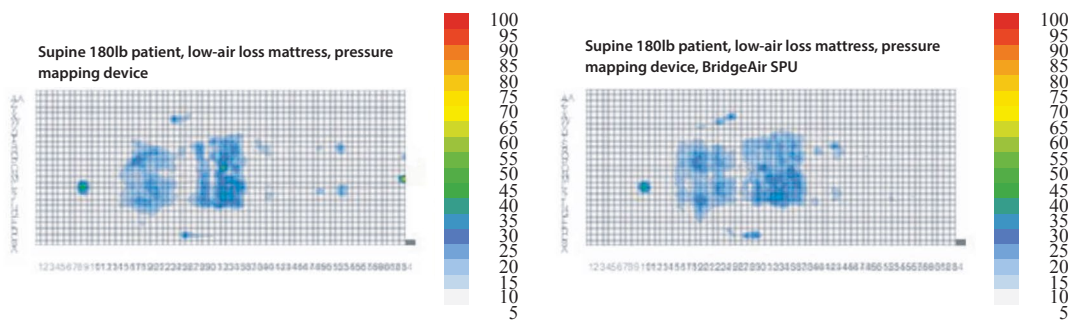
Tensile Force required to pull 450kg showed an average of 13.5kgf required demonstrating a significant reduction in force required to move a given weight. We can conclude this combination of Air Supply and Air Transfer mattress can reduce the patient weight to transfer by over 80%-90% if correct transfer practices are utilized when performing the task.

Pressure Study

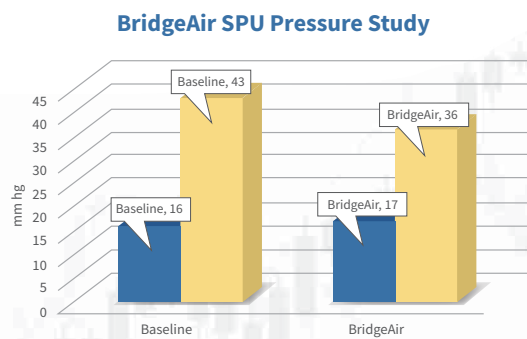
Product: BridgeAir, Single-Patient Use

Test Procedure and Conditions

All Tests were performed with a leading global low-air loss mattress and a 180lb patient in a supine position. A BodyTrak Pro computer aided pressure sensor system was utilized by a third-party engineer to perform tests.



Results



Test results showed no significant difference when adding a deflated BridgeAir underneath patient as compared to being on a low air-loss mattress without a BridgeAir.

Tests showed a less than 1% increase in average pressure. Maximum pressure was actually decreased to the redistribution of patient weight when adding a BridgeAir.



Water Vapor Transmission Rates

Product: BridgeAir, Single-Patient Use

Purpose: To determine water vapor transmission rates on BridgeAir Single Patient Use Air Transfer Mattress

Test Procedure and Conditions

Water Vapor Transmission (WVT) (ASTM E 96/E 96M - 16 Procedure BW Inverted Water Method)

Tested condition: Cup area: 0.003 m²

Temperature: 23±1°C

Relative Humidity: 50±2% RH Backside to Water

Results

Test results demonstrated under these conditions showed the material is vapor permeable at a rate of 305.0 g/m²/hr (7,320.0g/m²/24hrs). This result provides more than ten times the breathability of similar air transfer products.

Lateral Transfers

Repositioning

Turning

Proning

Surgical Services

Critical Care

MedSurge

Radiology

Emergency

Transport



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⚠WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

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